

## **Blockchain Security | Smart Contract Audits | KYC Development | Marketing**



# **BTC Bulldev**



06. August, 2024

**FOR** 







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Audit Results



#### Introduction

<u>SolidProof.io</u> is a brand of the officially registered company FutureVisions Deutschland, based in Germany. We're mainly focused on Blockchain Security such as Smart Contract Audits and KYC verification for project teams.

Solidproof.io assess potential security issues in the smart contracts implementations, review for potential inconsistencies between the code base and the whitepaper/documentation, and provide suggestions for improvement.

### **Disclaimer**

<u>SolidProof.io</u> reports are not, nor should be considered, an "endorsement" or "disapproval" of any particular project or team. These reports are not, nor should be considered, an indication of the economics or value of any "product" or "asset" created by any team. SolidProof.io do not cover testing or auditing the integration with external contract or services (such as Unicrypt, Uniswap, PancakeSwap etc'...)

SolidProof.io Audits do not provide any warranty or guarantee regarding the absolute bug-free nature of the technology analyzed, nor do they provide any indication of the technology proprietors. SolidProof Audits should not be used in any way to make decisions around investment or involvement with any particular project. These reports in no way provide investment advice, nor should be leveraged investment advice of any sort.

SolidProof.io Reports represent an extensive auditing process intending to help our customers increase the quality of their code while reducing thehigh level of risk presented by cryptographic tokens and blockchain technology. Blockchain technology and cryptographic assets present ahigh level of ongoing risk. SolidProof's position is that each company and individual are responsible for their own due diligence and continuous security. SolidProof in no way claims any guarantee of the security or functionality of the technology we agree to analyze.



## **Project Overview**

## **Summary**

Project Name	BTC Bulldev
Website	https://BTCBULLToken.com
About the project	Nothing can stand in the way of the BTC Bull - not FUD, not Mt Gox, not even regulations. Jump on board for the ride of your life as BTC Bull smashes through any resistance on the path to \$100k BTC and beyond!
Chain	Ethereum Network
Language	Solidity
Codebase	Provided by file
Commit	https://etherscan.io/address/0xc3f822e94c321dD3Ee53ca 46B78098ea79b7ec8d#code
Unit Tests	Not Provided

## **Social Medias**

Telegram	https://t.me/BTCBULLTOKEN
Twitter	https://x.com/BTCBULL_TOKEN
Facebook	N/A
Instagram	<u>N/A</u>
GitHub	N/A
Reddit	N/A
Medium	N/A
Discord	N/A
YouTube	N/A
TikTok	<u>N/A</u>
LinkedIn	N/A



### **Audit Summary**

Version	Delivery Date	Change Log
v1.0	06. August 2024	Layout Project
		Automated/Manual-Security Testing
		Summary

**Note** – The following audit report presents a comprehensive security analysis of the smart contract utilized in the project that includes outside manipulation of the contract's functions in a malicious way. This analysis did not include functional testing (or unit testing) of the contract/s logic. We cannot guarantee 100% logical correctness of the contract as we did not functionally test it. This includes internal calculations in the formulae used in the contract.





#### File Overview

The Team provided us with the files that should be tested in the security assessment. This audit covered the following files listed below with an SHA-1 Hash.

File Name	SHA-1 Hash
contracts/Token.sol	46e08784772eba8cc9ba1bd86331f5299a35c146

Please note: Files with a different hash value than in this table have been modified after the security check, either intentionally or unintentionally. A different hash value may (but need not) be an indication of a changed state or potential vulnerability that was not the subject of this scan.

#### Imported packages.

Used code from other Frameworks/Smart Contracts.

N/A

**Note for Investors:** We only audited contracts mentioned in the scope above. All contracts related to the project apart from that are not a part of the audit, and we cannot comment on its security and are not responsible for it in any way.



#### **External/Public functions**

External/public functions are functions that can be called from outside of a contract, i.e., they can be accessed by other contracts or external accounts on the blockchain. These functions are specified using the function declaration's external or public visibility modifier.

#### **State variables**

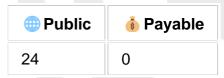
State variables are variables that are stored on the blockchain as part of the contract'sstate. They are declared at the contract level and can be accessed and modified by any function within the contract. State variables can be needed within visibility modifier, such as public, private or internal, which determines the access level of the variable.

#### **Components**

<b> ➢</b> Contracts	Libraries	Interfaces	Abstract
1	0	2	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.



External	Internal	Private	Pure	View
10	26	0	0	16

#### **StateVariables**

Total	Public
13	6



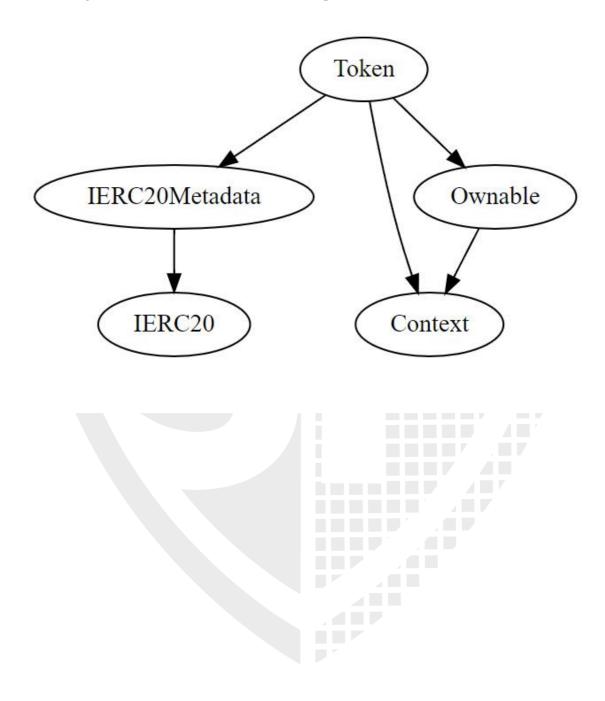
## **Capabilities**

Solidity Versions observed	Expe Feat	rimental ıres	Can Receive Funds	<b>■</b> Uses Assembly	<ul><li></li></ul>
^0.8.9					
€ Transfer s ETH	<b>∳</b> Low- Level Calls	Delegate Call	Uses Hash Functions	# ECRecover	<b>6</b> New/Create/ Create2
yes					



### **Inheritance Graph**

An inheritance graph is a graphical representation of the inheritance hierarchy among contracts. In object-oriented programming, inheritance is a mechanism that allows one class (or contract, in the case of Solidity) to inherit properties and methodsfrom another class. It shows the relationships between different contracts and how they are related to each other through inheritance.





## **Audit Information**

## **Vulnerability & Risk Level**

Risk represents the probability that a certain source threat will exploit thevulnerability and the impact of that event on the organization or system. The 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 aspossible.
Medium	4 – 6.9	A vulnerability that could affect the desired outcome of executingthe 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 check the repository for security-related issues, code quality, and compliance with specifications and best practices. To this end, our team of experienced pen-testers and smart contract developers reviewed the code line by line and documented any issues discovered.

We check every file manually. We use automated tools only so that they help us achieve faster and better results.

#### Methodology

The auditing process follows a routine series of steps:

- 1. Code review that includes the following:
  - a. Reviewing the specifications, sources, and instructions provided to SolidProof to ensure we understand the size, scope, and functionality of the smart contract.
  - b. Manual review of the code, i.e., reading the source code line by line to identify potential vulnerabilities.
  - c. Comparison to the specification, i.e., verifying that the code does what is described in the specifications, sources, and instructions provided to SolidProof.
- 2. Testing and automated analysis that includes the following:
  - a. Test coverage analysis determines whether test cases cover codeand how much code is executed when those test cases are executed.
  - b. Symbolic execution, which is analysing a program to determine what inputs cause each part of a program to execute.
- Review best practices, i.e., review smart contracts to improve efficiency, effectiveness, clarity, maintainability, security, and control based on best practices, recommendations, and research from industry and academia.
- 4. Concrete, itemized and actionable recommendations to help you secure your smart contracts.



## Overall Security Upgradeability

Contract is not an upgradable	Deployer cannot update the contract with new functionalities.
Description	The contract is not an upgradeable contract. The Deployer is not able to change or add any functionalities to the contract after deploying.
Comment	N/A





## **Ownership**

Contract ownership is renounced.	The ownership is renounced.
Description	<ul> <li>There are no ownership privileges in this contract.</li> </ul>
Comment	There are no ownership privileges in the contract. However, the owner can only transfer and renounce ownership.

**Note** – The contract cannot be considered as renounced till it is not deployed or having some functionality that can change the state of the contract.



### **Ownership Privileges**

These functions can be dangerous. Please note that abuse can lead to financial loss. We have a guide where you can learn more about these Functions.

### **Minting tokens**

Minting tokens refer to the process of creating new tokens in a cryptocurrency or blockchain network. This process is typically performed by the project's owner or designated authority, who has the ability to add new tokens to the network's total supply.

Contract owner cannot mint new tokens.	The owner cannot mint new tokens.	
Description	The owner is not able to mint new tokens once the contract is deployed.	
Comment	N/A	



## **Burning tokens**

Burning tokens is the process of permanently destroying a certain number of tokens, reducing the total supply of a cryptocurrency or token. This is usually done to increase the value of the remaining tokens, as the reduced supply can create scarcity and potentially drive up demand.

Contract owner cannot burn tokens	▼ The owner cannot burn tokens.
Description	The owner is not able to burn tokens without any allowances.
Comment	N/A



#### **Blacklist addresses**

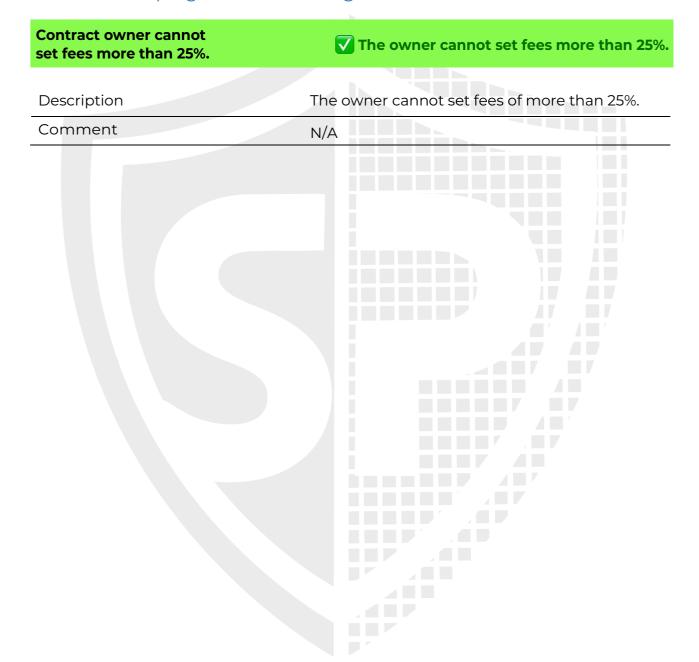
Blacklisting addresses in smart contracts is the process of adding a certain address to a blacklist, effectively preventing them from accessingor participating in certain functionalities or transactions within the contract. This can be useful in preventing fraudulent or malicious activities, such as hacking attempts or money laundering.

ontract owner cannot lacklist addresses.	The owner cannot blacklist wallets.
Description	The owner cannot blacklist wallets from transferring of tokens.
Comment	N/A



#### **Fees and Tax**

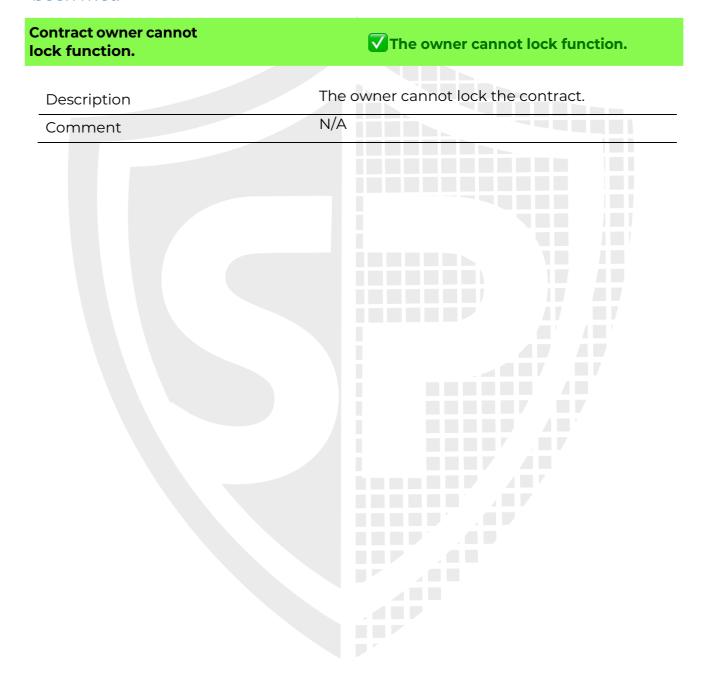
In some smart contracts, the owner or creator of the contract can setfees for certain actions or operations within the contract. These fees can be used to cover the cost of running the contract, such as paying for gas fees or compensating the contract's owner for their time and effort indeveloping and maintaining the contract.





#### **Lock User Funds**

In a smart contract, locking refers to the process of restricting access to certain tokens or assets for a specified period of time. When token or assets are locked in a smart contract, they cannot be transferred or used until the lock-up period has expired or certain conditions have been met.





### **Centralization Privileges**

Centralization can arise when one or more parties have privileged access or control over the contract's functionality, data, or decision-making. This can occur, for example, if the contract is controlled by a single entity or if certain participants have special permissions or abilities that others do not.

In the project, there are authorities that have access to the following functions:

File	Privileges
Token.sol	There are no ownership privileges in the contract. However, the owner can only transfer and renounce ownership.

#### Recommendations

To avoid potential hacking risks, it is advisable for the client to manage the private key of the privileged account with care. Additionally, we recommend enhancing the security practices of centralized privileges or roles in the protocol through a decentralized mechanism or smartcontract-based accounts, such as multi-signature wallets.

Here are some suggestions of what the client can do:

- Consider using multi-signature wallets: Multi-signature wallets require multiple parties to sign off on a transaction before it can be executed, providing an extra layer of security e.g. Gnosis Safe
- Use of a timelock at least with a latency of e.g. 48-72 hours for awareness of privileged operations
- Introduce a DAO/Governance/Voting module to increase transparency and user involvement
- Consider Renouncing the ownership so that the owner cannot modify any state variables of the contract anymore. Make sure to set up everything before renouncing.



#### **Audit Result**

#### **Critical Issues**

### No critical issues

#### **High Issues**

## No high issues

#### **Medium Issue**

#### No medium issues

#### Low Issue

### No low issues

#### Informational Issue

#### #1 | NatSpec Documentation missing.

File	Severity	Location	Status
Token.sol	Informational	, T	Open

**Description** – If you have started to comment on your code, comment on all other functions, variables, etc.



#### **Legend for the Issue Status**

Attribute or Symbol	Meaning
Open	The issue is not fixed by the project team.
Fixed	The issue is fixed by the project team.
Acknowledged(ACK)	The issue has been acknowledged or declared as part of business logic.





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