



SOLIDProof
Bring trust into your projects

Blockchain Security | Smart Contract Audits | KYC

MADE IN GERMANY

CZ Fighter

Audit

Security Assessment

12.June,2023

For



SolidProof.io



[@solidproof_io](https://t.me/solidproof_io)

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Version	Date	Description
1.0	12.June,2023	<ul style="list-style-type: none">• Layout project• Automated- /Manual-Security Testing• Summary

Network
Binance Smart Chain(BSC)

Website
<https://czfighter.io/>

Twitter
https://twitter.com/CZ_fighter

Telegram
https://t.me/CZ_fighter_portal



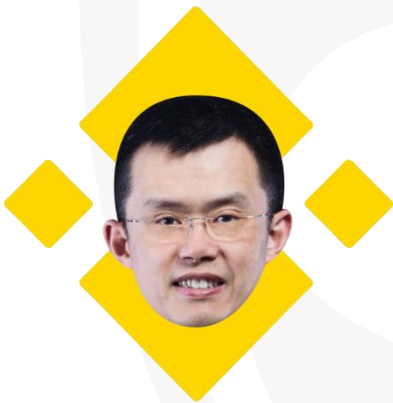
Description

The mission of the project is that there is no need to discredit the reputation of CZ and Binance. We work in the crypto world and in the crypto industry, where every negative news from which regulators like the SEC affects the mass adoption of all crypto and BNB in particular.

Project Engagement

During the 12th of June 2023, **CZ Fighter** team engaged Solidproof.io to audit the smart contracts that they created. The engagement was technical in nature and focused on identifying the security flaws in the design and implementation of the contracts. They provided Solidproof.io with access to their code repository and whitepaper.

Logo



Contract Links

v1.0

<https://bscscan.com/token/0x5d4c477bbfcd6db3e10d79c2054cfbe8ac543b65#code>

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.

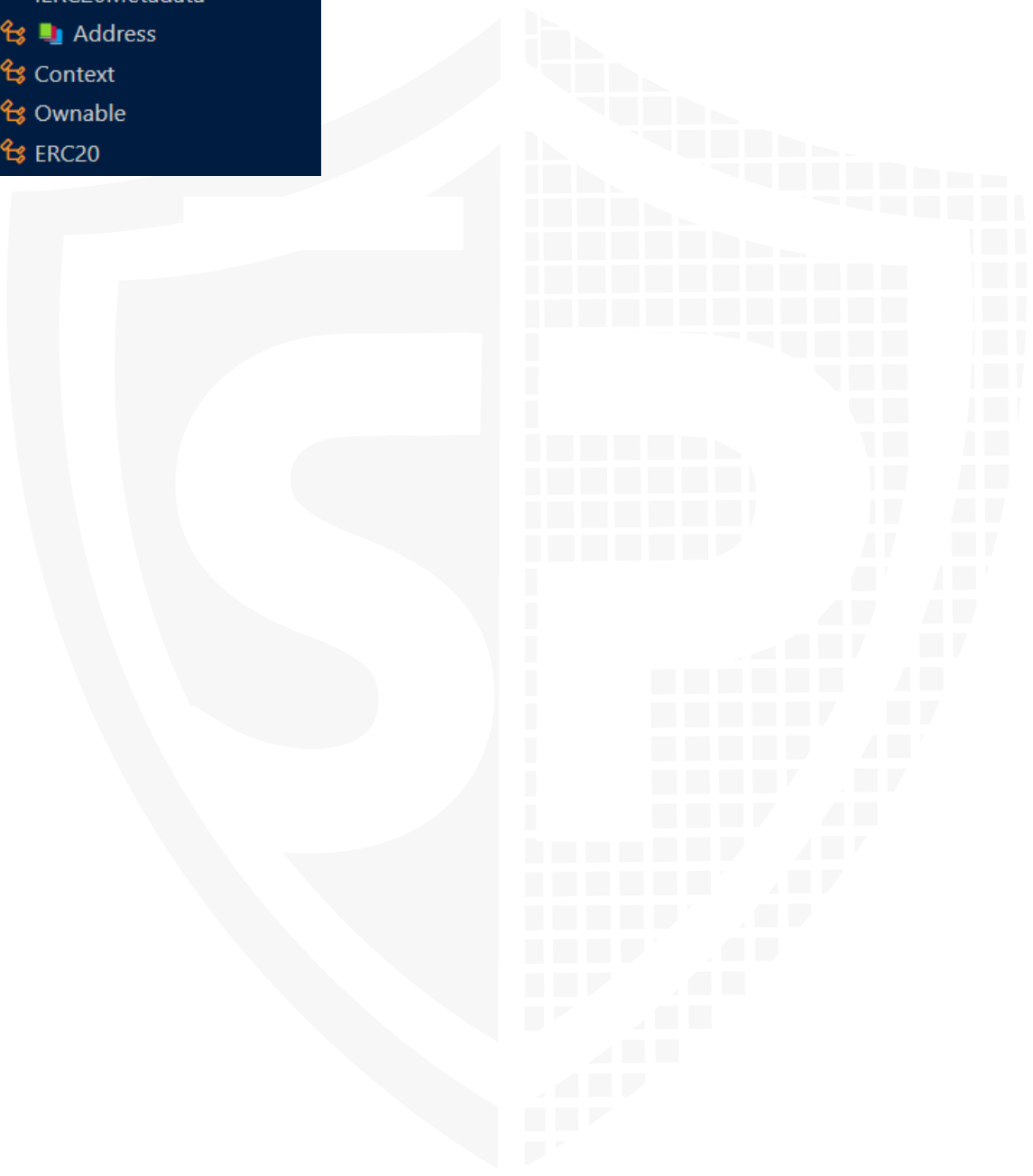
Methodology

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 analyzing 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
> Address
> Context
> Ownable
> ERC20
```


Tested Contract Files

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

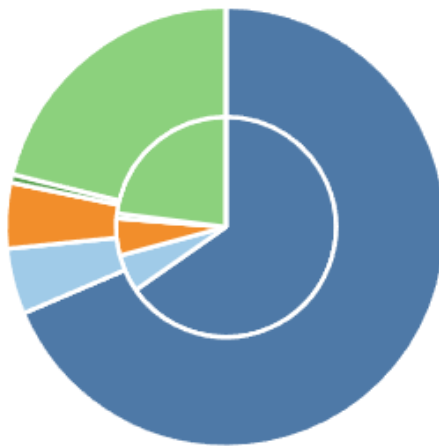
A file with a different Hash has been modified, intentionally or otherwise, after the security review. A different Hash could be (but not necessarily) an indication of a changed condition or potential vulnerability that was not within the scope of this review.

v1.0

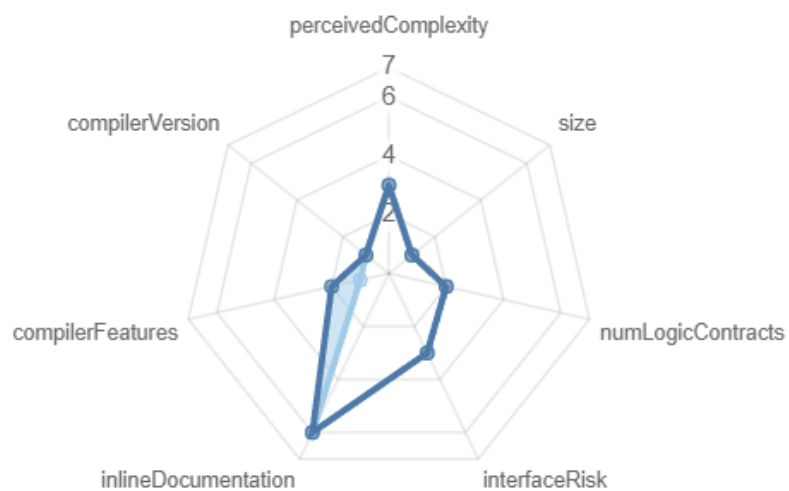
File Name	SHA-1 Hash
contracts/CZF.sol	33b5ad5c981f77aef801a6d46c994d302c944db0

Metrics

Source Lines v1.0



Risk Level v1.0



Capabilities

Components

 Contracts	 Libraries	 Interfaces	 Abstract
2	1	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.





 Public	 Payable
28	1







External	Internal	Private	Pure	View
13	34	0	0	16



StateVariables

Total	 Public
9	2

Capabilities

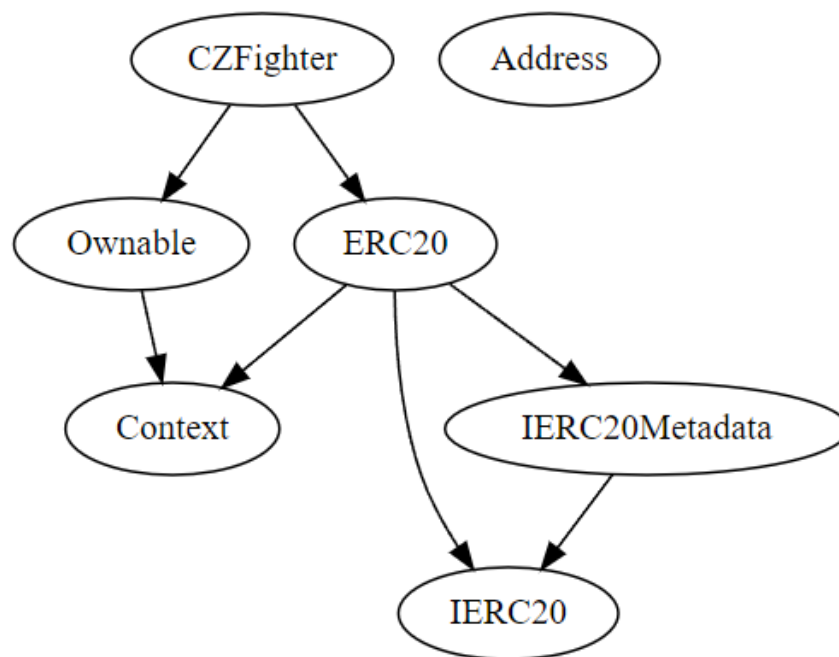
Solidity Versions observed	 Experimental Features	 Can Receive Funds	 Uses Assembly	 Has Destroyable Contracts
0.8.17		yes		

 Transfers ETH	 Low-Level Calls	 DelegateCall	 Uses Hash Functions	 Ecrecover	 New/Create/Create2
yes					

 TryCatch	 Unchecked
	yes

Inheritance Graph

v1.0



v1.0

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



Is contract an upgradeable

Name	
Is contract an upgradeable?	No



Correct implementation of Token standard

ERC20				
Function	Description	Exist	Tested	Verified
totalSupply	Provides information about the total token supply	Yes	Yes	Yes
balanceOf	Provides account balance of the owner's account	Yes	Yes	Yes
transfer	Executes transfers of a specified number of tokens to a specified address	Yes	Yes	Yes
transferFrom	Executes transfers of a specified number of tokens from a specified address	Yes	Yes	Yes
approve	Allow a spender to withdraw a set number of tokens from a specified account	Yes	Yes	Yes
allowance	Returns a set number of tokens from a spender to the owner	Yes	Yes	Yes

Deployer cannot mint any new tokens

Name	Exist	Tested	Status
Deployer cannot mint	N/A	N/A	N/A
Max / Total Supply	1000000000000000000 000000000000		

Deployer cannot burn or lock user funds

Name	Exist	Tested	Status
Deployer cannot lock	N/A	N/A	N/A
Deployer cannot burn	N/A	N/A	N/A



Deployer cannot pause the contract

Name	Exist	Tested	Status
Deployer cannot pause	N/A	N/A	N/A



Overall checkup (Smart Contract Security)

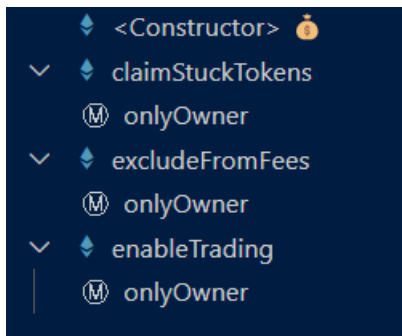
Tested	Verified

Legend

Attribute	Symbol
Verified / Checked	
Partly Verified	
Unverified / Not checked	
Not available	

Modifiers and public functions

v1.0







Ownership Privileges:

- The owner can claim stuck tokens.
- The owner can whitelist addresses.
- The owner can enable trading only once.

Source Units in Scope

v1.0

Type	File	Logic Contracts	Interfaces	Lines	nLines	nSLOC	Comment Lines	Complex. Score	Capabilities
	contracts/CZF.sol	5	2	311	271	190	16	182	
	Totals	5	2	311	271	190	16	182	

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

No Low issues

Informational issues

Issue	File	Type	Line	Description
#1	CFZ.sol	Natspec documentation missing	-	If you started to comment on your code, also comment on all other functions, variables, etc.

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 those variables, functions etc. do.

12. June 2023:

- Read the report and modifier section to get more details.

SWC Attacks

ID	Title	Relationships	Status
SWC-136	Unencrypted Private Data On-Chain	CWE-767: Access to Critical Private Variable via Public Method	PASSED
SWC-135	Code With No Effects	CWE-1164: Irrelevant Code	PASSED
SWC-134	Message call with hardcoded gas amount	CWE-655: Improper Initialization	PASSED
SWC-133	Hash Collisions With Multiple Variable Length Arguments	CWE-294: Authentication Bypass by Capture-replay	PASSED

<u>SWC-132</u>	Unexpected Ether balance	<u>CWE-667: Improper Locking</u>	PASSED
<u>SWC-131</u>	Presence of unused variables	<u>CWE-1164: Irrelevant Code</u>	PASSED
<u>SWC-130</u>	Right-To-Left-Override control character (U+202E)	<u>CWE-451: User Interface (UI) Misrepresentation of Critical Information</u>	PASSED
<u>SWC-129</u>	Typographical Error	<u>CWE-480: Use of Incorrect Operator</u>	PASSED
<u>SWC-128</u>	DoS With Block Gas Limit	<u>CWE-400: Uncontrolled Resource Consumption</u>	PASSED
<u>SWC-127</u>	Arbitrary Jump with Function Type Variable	<u>CWE-695: Use of Low-Level Functionality</u>	PASSED
<u>SWC-125</u>	Incorrect Inheritance Order	<u>CWE-696: Incorrect Behavior Order</u>	PASSED
<u>SWC-124</u>	Write to Arbitrary Storage Location	<u>CWE-123: Write-what-where Condition</u>	PASSED

SWC-123	Requirement Violation	CWE-573: Improper Following of Specification by Caller	PASSED
SWC-122	Lack of Proper Signature Verification	CWE-345: Insufficient Verification of Data Authenticity	PASSED
SWC-121	Missing Protection against Signature Replay Attacks	CWE-347: Improper Verification of Cryptographic Signature	PASSED
SWC-120	Weak Sources of Randomness from Chain Attributes	CWE-330: Use of Insufficiently Random Values	PASSED
SWC-119	Shadowing State Variables	CWE-710: Improper Adherence to Coding Standards	PASSED
SWC-118	Incorrect Constructor Name	CWE-665: Improper Initialization	PASSED
SWC-117	Signature Malleability	CWE-347: Improper Verification of Cryptographic Signature	PASSED
SWC-116	Timestamp	CWE-829: Inclusion of Functionality from Untrusted Control Sphere	PASSED

	Dependence		
SWC-115	Authorization through tx.origin	CWE-477: Use of Obsolete Function	PASSED
SWC-114	Transaction Order Dependence	CWE-362: Concurrent Execution using Shared Resource with Improper Synchronization ('Race Condition')	PASSED
SWC-113	DoS with Failed Call	CWE-703: Improper Check or Handling of Exceptional Conditions	PASSED
SWC-112	Delegate call to Untrusted Callee	CWE-829: Inclusion of Functionality from Untrusted Control Sphere	PASSED
SWC-111	Use of Deprecated Solidity Functions	CWE-477: Use of Obsolete Function	PASSED
SWC-110	Assert Violation	CWE-670: Always-Incorrect Control Flow Implementation	PASSED
SWC-109	Uninitialized Storage Pointer	CWE-824: Access of Uninitialized Pointer	PASSED
SWC-108	State Variable	CWE-710: Improper Adherence to Coding Standards	PASSED

	Default Visibility		
SWC-107	Reentrancy	CWE-841: Improper Enforcement of Behavioral Workflow	PASSED
SWC-106	Unprotected SELFDESTRUCT Instruction	CWE-284: Improper Access Control	PASSED
SWC-105	Unprotected Ether Withdrawal	CWE-284: Improper Access Control	PASSED
SWC-104	Unchecked Call Return Value	CWE-252: Unchecked Return Value	PASSED
SWC-103	Floating Pragma	CWE-664: Improper Control of a Resource Through its Lifetime	PASSED
SWC-102	Outdated Compiler Version	CWE-937: Using Components with Known Vulnerabilities	PASSED
SWC-101	Integer Overflow and Underflow	CWE-682: Incorrect Calculation	PASSED

SWC-100	Function Default Visibility	CWE-710: Improper Adherence to Coding Standards	PASSED
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