



Advanced Manual


# Smart Contract Audit

October 27, 2022

Audit Requested by



**AVATLY**

 <https://avatly.com/>

**BLOCKCHAIN  
SECURITY & SMART  
CONTRACT AUDIT**

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# Table of Contents

## 1. Audit Summary

- 1.1 Audit Scope
- 1.2 Tokenomics
- 1.3 Source Code

## 2. Global Overview

- 3.1 Information Issues
- 3.2 Low-Risk Issues
- 3.3 Medium-Risk Issues
- 3.4 High-Risk Issues

## 3. Vulnerabilities Findings

## 4. Contract Privileges

- 5.1 Maximum Fee Limit Check
- 5.2 Contract Pausability Check
- 5.3 Max Transaction Amount Check
- 5.4 Exclude From Fees Check
- 5.5 Ability to Mint Check
- 5.6 Ability to Blacklist Check
- 5.7 Owner Privileges Check

## 5. Website Review

## 6. Certificate of Proof

## 7. Disclaimer

## Audit Summary

Project Name	AVATLY
Website	<a href="https://avatly.com/">https://avatly.com/</a>
Blockchain	BNB Chain
Smart Contract Language	Solidity
Contract Address	0x83B79F74F225E8F9a29fC67CB1678e7909d7D73d
Audit Method	Static Analysis, Manual Review
Date of Audit	November 30, 2022
Score of Audit	09 out of 10

This audit report was prepared by CodeProof's experts at the client's request. In this review, the results of static analysis and manual code review will be presented. The purpose of the audit is to see if functionality works as expected and identify potential security issues in smart contracts.

The information in this report should be used to understand the risks associated with smart contracts. This report can serve as a guide for the development team on how they can improve the contract by correcting identified issues.

## Audit Scope

CodeProof was commissioned to perform an audit based on the following code: <https://bscscan.com/token/0x4fdda510590117860b9d3db46efb8df002a831ce>

Note that when auditing, we only audit the code available at that URL. If the URL is not from any block explorer (mainnet), it may be subject to change. Always check the contract address on this audit report and compare it to the coins you are researching.

## Audit method

CodeProof's Manual Smart Contract Audit is an extensive systematic inspection and analysis of the smart contract code used to interact with the blockchain. This process is performed to find bugs, issues, and security holes in the code in order to suggest improvements and ways to fix them.

## Automatic Vulnerability Check

CodeProof uses software to check for common vulnerability issues in smart contracts. We use automated tools to scan contracts for security vulnerabilities such as integer overflows, integer underflows, out-of-gas conditions, unchecked transfers, etc.

## Manual Code Review

Co-insulting manual code review involves a human going through the source code line by line to find vulnerabilities. Manual code reviews help clarify the context of coding decisions. Automated tools are faster, but they cannot understand developer intent and general business logic consideration.

## Used Tools

Slither: Solidity static analysis framework

Remix: IDE Developer Tool





CWE: Common Weakness Enumeration

SWC: Smart Contract Weakness Classification and Test Cases

DEX: Testnet Blockchains

# Risk Classification

CodeProof uses specific vulnerability levels that indicate how serious a problem is. The higher the risk, the more rigorously it is recommended to correct errors before using the contract.

Vulnerability Level	Description
 Information	Not in any way impair the functionality of the contract
 Low-Risk	Won't cause any problems, but can be improved
 Medium-Risk	Likely cause problems and recommended to adjust
 High-Risk	Definitely cause problems, needs to be adjusted

CodeProof has four states for each risk level. Below we briefly explain.

Risk Status	Description
Total	Total amount of issues within this category
Pending	Risks that have yet to be addressed by the team
Acknowledged	The team is aware of the risks but not resolve them
Resolved	The team has resolved and remedied the risk

# SWC Attack Analysis





The Smart Contract Weakness Classification Registry (SWC Registry) is an implementation of the weakness classification scheme proposed in EIP-1470. It aligns loosely with the terminology and structure used in the Common Weakness Enumeration (CWE), while covering a wide range of vulnerability variants specific to smart contracts.

Risk Status	Description	Status
SWC-101	Function Default Visibility	Passed
SWC-101	Integer Overflow and Underflow	Passed
SWC-102	Outdated Compiler Version	Failed
SWC-103	Floating Pragma	Passed
SWC-104	Unchecked Call Return Value	Passed
SWC-105	Unprotected Ether Withdrawal Passed	Passed
SWC-106	Unprotected SELFDESTRUCT Instruction	Passed
SWC-107	Reentrancy	Passed
SWC-108	State Variable Default Visibility	Passed
SWC-109	Uninitialized Storage Pointer Passed	Passed
SWC-110	Assert Violation	Passed
SWC-111	Use of Deprecated Solidity Functions	Passed
SWC-112	Delegatecall to Untrusted Callee Passed	Passed
SWC-113	DoS with Failed Call	Passed
SWC-114	Transaction Order Dependence	Passed
SWC-115	Authorization through tx.origin Failed	Passed

# Global Overview







## Manual Code Review

In this audit report we will highlight the following issues:

Vulnerability Level	Total	Pending	Acknowledged	Resolved
 Information	0	0	0	0
 Low-Risk	1	1	0	0
 Medium-Risk	1	1	0	0
 High-Risk	0	0	0	0

## Centralization Risks

CodeProof checked the following privileges:




Risk Status	Description
Owner can mint?	 Owner cannot mint new tokens
Owner can blacklist?	 Owner cannot blacklist addresses
Owner can set fees > 25%?	 Owner cannot set the sell fee to 25% or higher
Owner can exclude from fees?	 Owner can exclude from fees
Owner can pause trading?	 Owner cannot pause the contract
Owner can set Max TX amount?	 Owner can set Max TX amount

More owner privileges are listed later in the report.

## Maximum Fee Limit Check

Error Code	Description
CEN-01	Centralization: Operator Fee Manipulation

CodeProof tests if the owner of the smart contract can set the transfer, buy or sell fee to 25% or more. It is bad practice to set the fees to 25% or more, because owners can prevent healthy trading or even stop trading when the fees are set too high.


Privilege Check	Description
Transfer Fee	 Owner cannot set the transfer fee to 25% or higher
Buy Fee	 Owner cannot set the buy fee to 25% or higher
Sell Fee	 Owner cannot set the sell fee to 25% or higher



## Contract Pausability Check

Error Code	Description
CEN-02	Centralization: Operator Pausability


CodeProof tests whether the owner of the smart contract has the ability to pause the contract. If this is the case, users can no longer interact with the smart contract; users can no longer trade the token.

Privilege Check	Description
Can owner pause the contract?	 Owner cannot pause the contract

# Max Transaction Amount Check

Error Code	Description
CEN-03	Centralization: Operator Transaction Manipulation

CodeProof tests whether the owner of a smart contract can set a maximum amount for a transaction. If a transaction exceeds this limit, the transaction will revert. Owners can block normal transactions if they abuse this feature.

Privilege Check	Description
Owner can set Max TX amount?	 Owner can set Max TX amount

## Function

CodeProof checked the following privileges:

```
function updateMaxTx(uint256 maxTXPercentage_base1000) external external
onlyOwner
require (maxTXPercentage_base1000 >= 5, "Cannot set max transaction less
than 0.5%"); _maxTxAmount _(totalSupply * maxTXPercentage_base1000 ) //
1000;
```

# Exclude From Fees Check

Error Code	Description
CEN-04	Centralization: Operator Exclusion

CodeProof tests whether the owner of a smart contract can set a maximum amount for a transaction. If a transaction exceeds this limit, the transaction will revert. Owners can block normal transactions if they abuse this feature.

Privilege Check	Description
Owner can set Max TX amount?	<input checked="" type="checkbox"/> Owner can set Max TX amount

## Function

CodeProof checked the following privileges:

```
function updateMaxTx(uint256 maxTXPercentage_base1000) external external  
onlyOwner  
require (maxTXPercentage_base1000 >= 5, "Cannot set max transaction less  
than 0.5%"); _maxTxAmount = (totalSupply * maxTXPercentage_base1000) //  
1000;
```


# Ability To Mint Check

Error Code	Description
CEN-05	Centralization: Operator Increase Supply

CodeProof tests whether the owner of the smart contract can mint new tokens. If the contract contains a mint function, we refer to the total supply of tokens as non-fixed, allowing token owners to "mint" more whenever they want.

The mint function in the smart contract allows minting tokens at a later stage. A method to disable minting can also be added to irreversibly stop the minting process.

Minting tokens is done by sending a transaction that creates new tokens in the token smart contract. With the help of smart contract functionality, an unlimited number of tokens can be created without extra effort or money required.


Privilege Check	Description
Can owner mint?	 Owner cannot mint new tokens

# Ability To Blacklist Check

Error Code	Description
CEN-06	Centralization: Operator Disallows Wallets

CodeProof tests whether the owner of a smart contract can blacklist accounts that interact with the smart contract. The blacklist method allows the contract owner to enter wallet addresses that are not allowed to interact with the smart contract.

This method can be abused by token owners to prevent some/all holders from trading tokens. However, blacklists can be fine for tokens that want to exclude certain addresses from interacting with smart contracts.

Privilege Check	Description
Can owner mint?	 Owner cannot mint new tokens

## Other Owner Privileges Check

Error Code	Description
CEN-100	Centralization: Operator Privileges

CodeProof lists all important contract methods which the owner can interact with.

- ⚠ Owner can open trading whenever he wants
- ⚠ Owner can withdraw tokens from the contract balance
- ⚠ Owner can set max holding balance
- ⚠ Owner can exclude addresses from max holding limit
- ⚠ Owner can exclude addresses from max transaction amount
- ⚠ Owner can set target liquidity level
- ⚠ Authorized wallets can trade before trading is opened

# Website Review

CodeProof checks websites completely manually, looking for visual, technical and textual errors. We also consider the security, speed and accessibility of the website. In short, a complete check to see if the site meets current web development industry standards.






## THE FIRST METAVERSE FOR FASHION INDUSTRY

### NEW DIMENSION

Our desire is to create an outstanding experience of trying on virtual clothes in the Metaverse. We are convinced that the Metaverse and VR technology are the keys to realizing this vision.

### FASHION EXPERIENCE

Thanks to the metaverse and 3D avatars, we can take the shopping experience to a completely new dimension. Trying on, sharing outfits, and buying clothes in the metaverse will be so unbelievably exciting that you will never want to do it any other way.

Type of Check	Description
Mobile friendly?	 The website is mobile friendly
Contains jQuery errors?	 The website does not contain jQuery errors
Is SSL secured?	 The website is SSL secured

## Certificate of Proof

### **Audited by CodeProof**

Just like any other software, smart contracts come with security vulnerabilities. Therefore, a smart contract audit is necessary for ensuring that smart contracts are free of any security issues. Also, the audit will show where the smart contract can be optimized to ensure ideal levels of performance.



## Disclaimer

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CodeProof is not responsible if a project turns out to be a scam, rug pull or honeypot. We only provide detailed analysis for your own research. CodeProof is not responsible for any financial loss. There is no financial advice in this contract audit, please do your own research.

The information presented in this audit is for informational purposes only and should not be considered investment advice.

CodeProof does not endorse, recommend, support or advise investing in any project. CodeProof cannot be held responsible when a project turns out to be a rug pull, honeypot or scam.



End of report

# Smart Contract Audit

## BLOCKCHAIN SECURITY & SMART CONTRACT AUDIT

CodeProof is a pioneer in blockchain security, utilizing best-in-class manual security checks and AI technology to secure, develop and monitor blockchains, smart contracts, and Web3 apps

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