



**PROJECT:** SOLIDARITY TOKEN

**DATE:** September 1, 2022



www.safuaudit.com

# INTRODUCTION

Client SOLIDARITY TOKEN (SDT)

**Language** Solidity

Contract address 0xC58322eb9554e7927C1d08D93FC3aBdB0D3EdAb0

**Owner** 0x1304073448A1f1714Cf9dd5098F7fc9F088EB729

**Deployer** 0x1304073448A1f1714Cf9dd5098F7fc9F088EB729

**SHA1-Hash** 01a956d27494e8cdf0f7e8b707a1803e4f986168

**Decimals** 18

**Supply** 35,000,000

**Platform** Binance Smart Chain

**Compiler** v0.8.4+commit.c7e474f2

**Optimization** Yes with 200 runs

Website http://www.solidarityfinance.info/

Telegram https://t.me/solidarityfinance

**Twitter** https://twitter.com/SOLIDARITytoke1



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## **APPROACH**



#### **Audit Details**

Our comprehensive audit report provides a full overview of the audited system's architecture, smart contract codebase, and details on any vulnerabilities found within the system.



#### **Audit Goals**

The audit goal is to ensure that the project is built to protect investors and users, preventing potentially catastrophic vulnerabilities after launch, that lead to scams and rugpulls.



### Code Quality

Our analysis includes both automatic tests and manual code analysis for the following aspects:

- Exploits
- Back-doors
- Vulnerability
- Accuracy
- Readability



#### Tools

- Remix IDE
- Mythril
- Open Zeppelin Code Analyzer
- Solidity Code Complier
- Hardhat



## RISK CLASSIFICATION

## **CRITICAL**

Issues on this level are critical to the smart contract's performance/functionality and should be fixed before moving to a live environment.

### **MEDIUM**

Issues on this level could potentially bring problems and should eventually be fixed.

### MINOR

Issues on this level are minor details and warning that can remain unfixed but would be better fixed at some point in the future

## **INFORMATIONAL**

Information level is to offer suggestions for improvement of efficacity or security for features with a risk free factor.



## **OVERVIEW**

#### **Fees**

- Buy Fees: 0%
- Sell Fees: 0%

## **Fees privileges**

• Can't set fees

### **Ownership**

Owned

### **Minting**

No mint function

#### **Max Tx Amount**

• Can't set max Tx amount

#### Pause function

• Can't pause trading

#### **Blacklist**

• Can't blacklist



## CONTRACT INSPECTION P

## Imported contracts or frameworks used:

```
||||||
| **IERC20** | Interface | |||
| **Context** | Implementation | |||
| **Ownable** | Implementation | Context |||
| **SafeMath** | Library | |||
| **BaseToken** | Implementation | |||
| **StandardToken** | Implementation | IERC20, Ownable, BaseToken |||
```

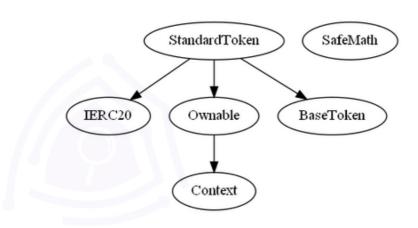
## **Tested Contract File:**

```
| File Name | SHA-1 Hash |
|-----|
| token.sol | 01a956d27494e8cdf0f7e8b707a1803e4f986168 |
```

```
**StandardToken** | Implementation | IERC20, Ownable, BaseToken |||
 | <Constructor> | Public | | III | NO | |
 l name | Public ! | NO! |
 | symbol | Public | | NO ! |
 | decimals | Public ! | NO! |
 L | totalSupply | Public ! | NO! |
 | balanceOf | Public | | NO ! |
 L | transfer | Public ! | 🛑 | NO! |
 | allowance | Public | | NO ! |
 └ | approve | Public ! | ● |NO! |
 | transferFrom | Public | | | NO ! |
 L | increaseAllowance | Public ! | ●
 L | decreaseAllowance | Public ! | ●
 l | _transfer | Internal 🔒 | ● | |
 └ | _mint | Internal 🔒 | ● | |
 L | _burn | Internal 🔒 | 🌘 | |
 L | _approve | Internal û | ● | |
 l | _setupDecimals | Internal 🔒 | 🌘
| L | beforeTokenTransfer | Internal 🔒 | 🛑
```



# INHERITANCE TREE 🚓



Inheritance is a feature of the object-oriented programming language. It is a way of extending the functionality of a program, used to separate the code, reduces the dependency, and increases the re-usability of the existing code. Solidity supports inheritance between smart contracts, where multiple contracts can be inherited into a single contract.



# MANUAL FUNCTIONS ANALYSIS

The contract is verified to check if functions do and work as they should and malicious code is not inserted.

|                    | Tested | Result |
|--------------------|--------|--------|
| Transfer           | Yes    | Passed |
| Total Supply       | Yes    | Passed |
| Buy Back           | Yes    | N/A    |
| Burn               | Yes    | N/A    |
| Mint               | Yes    | N/A    |
| Rebase             | Yes    | N/A    |
| Pause              | Yes    | N/A    |
| Blacklist          | Yes    | N/A    |
| Lock               | Yes    | N/A    |
| Max Transaction    | Yes    | N/A    |
| Transfer Ownership | Yes    | Passed |
| Renounce Ownership | Yes    | Passed |



# **VULNERABILITIES TEST**

| ID   | Description                           |        |
|------|---------------------------------------|--------|
| V-01 | Function Default Visibility           | Passed |
| V-02 | Integer Overflow and Underflow        | Passed |
| V-03 | Outdated Compiler Version             | Passed |
| V-04 | Floating Pragma                       | Passed |
| V-05 | Unchecked Call Return Value           | Passed |
| V-06 | Unprotected Ether Withdrawal          | Passed |
| V-07 | Unprotected SELF-DESTRUCT Instruction | Passed |
| V-08 | Re-entrancy                           | Passed |
| V-09 | State Variable Default Visibility     | Passed |
| V-10 | Uninitialized Storage Pointer         | Passed |
| V-11 | Assert Violation                      | Passed |
| V-12 | Use of Deprecated Solidity Functions  | Passed |
| V-13 | Delegate Call to Untrusted Callee     | Passed |
| V-14 | DoS with Failed Call                  | Passed |
| V-15 | Transaction Order Dependence          | Passed |
| V-16 | Authorization through tx.origin       | Passed |
| V-17 | Block values as a proxy for time      | Passed |



| V-18 | Signature Malleability                                  | Passed |
|------|---|--------|
| V-19 | Incorrect Constructor Name                              | Passed |
| V-20 | Shadowing State Variables                               | Passed |
| V-21 | Weak Sources of Randomness from Chain Attributes        |        |
| V-22 | Missing Protection against Signature Replay Attacks     |        |
| V-23 | Lack of Proper Signature Verification                   |        |
| V-24 | Requirement Violation                                   |        |
| V-25 | Write to Arbitrary Storage Location                     |        |
| V-26 | Incorrect Inheritance Order                             | Passed |
| V-27 | Insufficient Gas Griefing                               | Passed |
| V-28 | Arbitrary Jump with Function Type Variable              | Passed |
| V-29 | DoS With Block Gas Limit                                | Passed |
| V-30 | Typographical Error                                     |        |
| V-31 | Right-To-Left-Override control character (U+202E)       | Passed |
| V-32 | Presence of unused variables                            | Passed |
| V-33 | Unexpected Ether balance                                | Passed |
| V-34 | Hash Collisions With Multiple Variable Length Arguments | Passed |
| V-35 | Message call with the hardcoded gas amount              | Passed |
| V-36 | Code With No Effects (Irrelevant/Dead Code)             | Passed |
| V-37 | Unencrypted Private Data On-Chain                       | Passed |



## **GOOD PRACTICES**

- The owner cannot mint new tokens after deployment
- The owner cannot stop or pause the contract
- The owner cannot set a transaction limit
- The owner cannot set fees
- The smart contract utilizes "SafeMath" to prevent overflows

```
function tryAdd(uint256 a, uint256 b) internal pure returns (bool, uint256) {
   unchecked {
       uint256 c = a + b;
       if (c < a) return (false, 0);</pre>
       return (true, c);
function trySub(uint256 a, uint256 b) internal pure returns (bool, uint256) {
   unchecked {
       if (b > a) return (false, 0);
       return (true, a - b);
function tryMul(uint256 a, uint256 b) internal pure returns (bool, uint256) {
   unchecked {
      if (a == 0) return (true, 0);
       uint256 c = a * b;
       if (c / a != b) return (false, 0);
       return (true, c);
function tryDiv(uint256 a, uint256 b) internal pure returns (bool, uint256) {
   unchecked {
      if (b == 0) return (false, 0);
       return (true, a / b);
function tryMod(uint256 a, uint256 b) internal pure returns (bool, uint256) {
   unchecked {
       if (b == 0) return (false, 0);
       return (true, a % b);
```





Website http://www.solidarityfinance.info/

**Domain Registry** http://www.fastdomain.com

Domain Expiry Date 2022-10-27

Response Code 200

SSL Checker and HTTPS
Test
Passed

Deprecated HTML tags Passed

Robots.txt Informational

Sitemap Test Informational

SEO Friendly URL Passed

Responsive Test Passed

JS Error Test Informational

Console Errors Test Passed

Site Loading Speed Test 3.1 seconds - Passed

HTTP2 Test Passed

Safe Browsing Test Passed



## **DISCLAIMER**

SafuAudit.com is not a financial institution and the information provided on this website does not constitute investment advice, financial advice, trading advice, or any other sort of advice. You should not treat any of the website's content as such. Investing in crypto assets carries a high level of risk and does not hold guarantees for not sustaining financial loss due to their volatility.

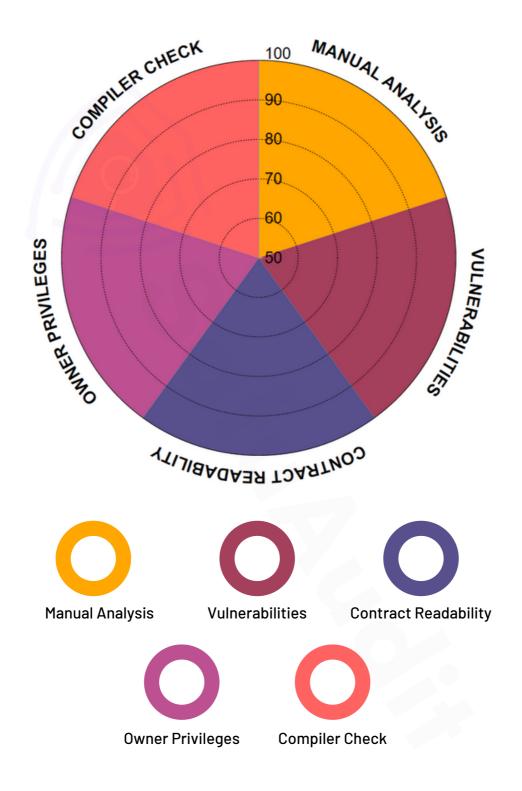
#### Accuracy of Information

SafuAudit will strive to ensure the accuracy of the information listed on this website although it will not hold any responsibility for any missing or wrong information. SafuAudit provides all information as is. You understand that you are using any and all information available here at your own risk. Any use or reliance on our content and services is solely at your own risk and discretion.

The purpose of the audit is to analyze the on-chain smart contract source code and to provide a basic overview of the project.

While we have used all the information available to us for this straightforward investigation, you should not rely on this report only — we recommend proceeding with several independent audits Be aware that smart contracts deployed on a blockchain aren't secured enough against external vulnerability or a hack. Be aware that active smart contract owner privileges constitute an elevated impact on the smart contract safety and security. Therefore, SafuAudit does not guarantee the explicit security of the audited smart contract. The analysis of the security is purely based on the smart contracts alone. No applications or operations were reviewed for security. No product code has been reviewed.

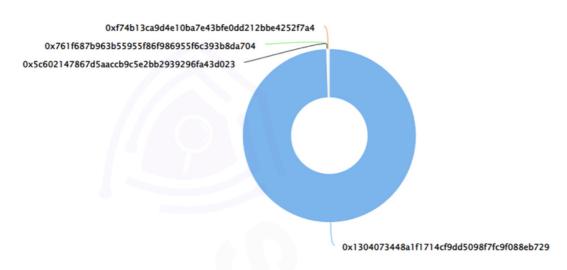




Final Score: 100



Top 10 holders



| Rank | Address                                    | Quantity (Token)             | Percentage |
|------|--|------------------------------|------------|
| 1    | 0x1304073448a1f1714cf9dd5098f7fc9f088eb729 | 34,825,297.85999996233403806 | 99.5009%   |
| 2    | 0x5c602147867d5aaccb9c5e2bb2939296fa43d023 | 48,409.223822165176146676    | 0.1383%    |
| 3    | 0x761f687b963b55955f86f986955f6c393b8da704 | 33,027.687919446415913578    | 0.0944%    |
| 4    | 0xf74b13ca9d4e10ba7e43bfe0dd212bbe4252f7a4 | 20,198                       | 0.0577%    |
| 5    | 0xb86511cab62fcb2cab465558fd01f387368398d1 | 17,089                       | 0.0488%    |
| 6    | 0x2024e4ecaba8cf409167743101c632e7b0570aff | 8,965                        | 0.0256%    |
| 7    | 0x6a78553daf6dbcbcf48b4564c190446ed163d945 | 3,764                        | 0.0108%    |
| 8    | 0x36f5ecd6f491812bc3a65035897bca1ca91396fc | 3,050                        | 0.0087%    |
| 9    | 0x6404d2430e3e7acc6fd46f8b7856fb2ca220b121 | 2,691.010028210467803976     | 0.0077%    |
| 10   | 0x7a5a00bf16c247c8eb3e9012473422e34b54b7c6 | 2,500                        | 0.0071%    |

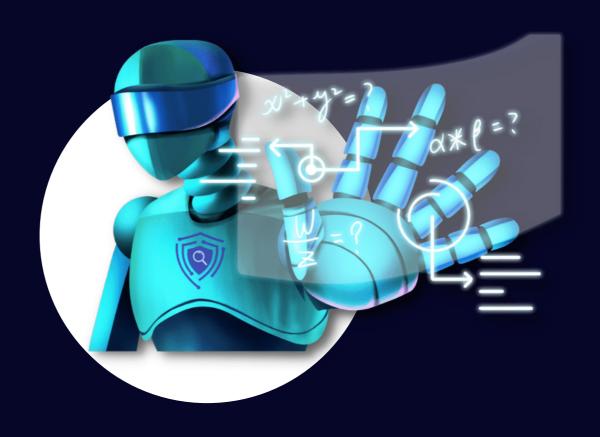
## CONCLUSION

Project SOLIDARITY TOKEN (SDT) does not contain any severe issues or risk characteristics.

SafuAudit has tested the security based on manual and automated tests. Please note that we don't offer any warranties for the business model.







"Only in growth, reform, and change, paradoxically enough, is true security to be found."







