

Smart Contract Security Audit V1

Umoja Coin Smart Contract Audit

Aug 5, 2025



Audited By: SaferICO

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Background

The purpose of the audit was to achieve the following:

- Ensure that the smart contract functions as intended.
- Identify potential security issues with the smart contract.

The information in this report should be used to understand the risk exposure of the smart contract, and as a guide to improve the security posture of the smart contract by remediating the issues that were identified.

Project Information

- **Platform:** Polygon Chain
- **Name:** Umoja Coin (UMC)
- **Language :** Solidity
- **Contract Address:** 0x80f2c9ed338bfce2bb128eccbb9b11bbca041a82, 0xc6fd60ecd78d5cdf9efb15b2a50b1411b2fe4c62
- **Code Source:** <https://polygonscan.com/address/0x80f2c9ed338bfce2bb128eccbb9b11bbca041a82#code>
<https://polygonscan.com/address/0xc6fd60ecd78d5cdf9efb15b2a50b1411b2fe4c62#code>

What is Umoja Coin (UMC)?



SPOX-License-Identifier: MIT

SPDX-License-Identifier: MIT

Secure & Audited

Smart Contract

What is Umoja Coin (UMC)?

- A secure, upgradeable smart contract built on Polygon.
- Utilizes OpenZeppelin's industry-standard libraries for reliability and security.
- Audited by SaferICO to ensure robust code quality and safety.

Core Features of Umoja Coin



Upgradeability

Uses Transparent UpgradeableProxy for seamless upgrades without disrupting functionality.



Access Control

Implements Ownable for restricted access to sensitive functions.



Proxy Pattern

ERC1967Proxy and BeaconProxy for flexible implementation updates.



Storage Management

Utilizes StorageSlot for efficient and conflict-free storage in upgradeable contracts.



Storage Management

Utilizes StorageSlot for efficient and conflict-free storage in upgradeable contracts.

Audited for Trust



SaferICO

- Audited for Trust.

Built for Security



Reentrancy Protection

Core Details

- **Token Name:** UmojaCoin (UMC)
- **Standard:** ERC20 (Upgradeable)
- **License:** MIT
- **Solidity Version:** ^8.0
- **Features:** Upgradeable (UUPS), Access Control, Vesting Schedules



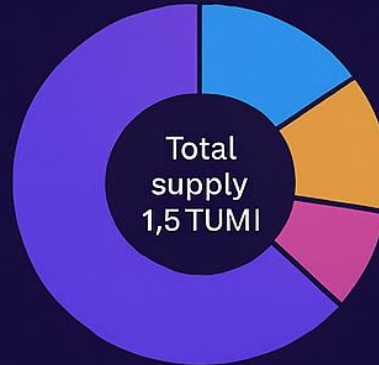
Vesting Schedules

- **12-Month Vesting:** 1% on listing, 1% monthly for 6 months, remaining over 6 months
- **24-Month Vesting:** 1% on listing, 1% monthly for 6 months, remaining over 18 months
- **Key function:** releaseVestedTokenst) Formula:
Vested amount calculated based on elapsed time, duration, and category

Core Functionalities

- ⚙ **Initialize**
- 👤 **Allocate Tokens**
(Admin only)
- 🔑 **Release Vested Tokens**

Token Distribution



Early Stage	10 M UMC	6.67%
Presale	100 M UMC	6.67%
Co-founders	291,25 M UMC	15.75%
Developers	250 M UMC	13.67%
Marketing	66.3 M UMC	4.42%
Free for Trading	792.45 MUM	52.65%

Key Addresses & Permissions

- 👤 Treasury: 0x99eb...02b8
- 👤 Marketing: 0x5bb3...FD4b
- 👤 Developer: 0x4a0b...DaD9



Admin Role

Blacklist accounts, allocate tokens, wifr and funds, upgrade contract



Blacklist

Prevents token transfers for blacklisted accounts

Tracked Events

- 🔔 Tokens Purchased
- 📋 Tokens Vested

Executive Summary

According to our assessment, the customer's solidity smart contract is **Well-Secured**.

Well Secured	✓
Secured	
Poor Secured	
Insecure	

Automated checks are with remix IDE. All issues were performed by the team, which included the analysis of code functionality, manual audit found during automated analysis were manually reviewed and applicable vulnerabilities are presented in the audit overview section. The general overview is presented in the Project Information section and all issues found are located in the audit overview section.

Team found 0 critical, 0 high, 0 medium, 2 low, 0 very low-level issues and 2 notes in all solidity files of the contract

The files:

UMC.sol

Audit Score:

99% secure



File and Function Level Report

File in Scope:

Contract Name	SHA 256 hash	Contract Address
UMC.sol	5d2ba2062d2d6d4d8306 bedb0996931195154ec1	0x80f2c9ed338bfce2bb128eccbb9b11bbca041a 82 0xc6fd60ecd78d5cdf9efb15b2a50b1411b2fe4c 62

- Contract: ERC1967Proxy
- Inherit: Proxy
- Observation: All passed including security check
- Test Report: passed
- Score: passed
- Conclusion: passed

Function	Test Result	Type / Return Type	Score
allowance	✓	Read / public	Passed
ADMIN_ROLE	✓	Read / public	Passed
blacklisted	✓	Read / public	Passed
hasRole	✓	Read / public	Passed
balanceOf	✓	Read / public	Passed
decimals	✓	Read / public	Passed
name	✓	Read / public	Passed
symbol	✓	Read / public	Passed
calculateVestedAmount	✓	Read / public	Passed
COFOUNDERS_TOKENS	✓	Read / public	Passed
DEFAULT_ADMIN_ROLE	✓	Read / public	Passed
EARLY_STAGE_TOKENS	✓	Read / public	Passed
DEVELOPERS_TOKENS	✓	Read / public	Passed

DEVELOPER_WALLET	✓	Read / public	Passed
FREE_FOR_TRADING_TOKENS	✓	Read / public	Passed
getRoleAdmin	✓	Read / public	Passed
getVestingDuration	✓	Read / public	Passed
proxiableUUID	✓	Read / public	Passed
listing_time	✓	Read / public	Passed
MARKETING_TOKENS	✓	Read / public	Passed
MARKETING_WALLET	✓	Read / public	Passed
PRESALE_TOKENS	✓	Read / public	Passed
supportsInterface	✓	Read / public	Passed
TREASURY_WALLET	✓	Read / public	Passed
TOTAL_SUPPLY	✓	Read / public	Passed
totalSupply	✓	Read / public	Passed
UPGRADE_INTERFACE_VERSION	✓	Read / public	Passed
vestingSchedules	✓	Read / public	Passed
approve	✓	Write / public	Passed
transfer	✓	Write / public	Passed
transferFrom	✓	Write / public	Passed
allocateTokens	✓	Write / public	Passed
initialize	✓	Write / public	Passed
renounceRole	✓	Write / public	Passed
revokeRole	✓	Write / public	Passed
setBlacelist	✓	Write / public	Passed
setListingTime	✓	Write / public	Passed
withdrawFunds	✓	Write / public	Passed
withdrawTokens	✓	Write / public	Passed
releaseVestedTokens	✓	Write / public	Passed

upgradeToAndCall	✓	Write / payable	Passed
decreaseAllowance	✓	Write / public	Passed
upgradeTo	✓	Write / public	Passed
increaseAllowance	✓	Write / public	Passed
grantRole	✓	Write / public	Passed

Issues Checking Status

SWC Attack Analysis

The Smart Contract Weakness Classification Registry (SWC Registry) is an implementation of the weakness classification scheme proposed in EIP-1470. It is loosely aligned to the terminologies and structure used in the Common Weakness Enumeration (CWE) for more info check

<https://swcregistry.io/>

No.	Issue Description	Checking Status
136	Unencrypted Private Data On-Chain	Passed
135	Code With No Effects	Passed
134	Message call with hardcoded gas amount	Passed
133	Hash Collisions With Multiple Variable Length Arguments	Passed
132	Unexpected Ether balance	Passed
131	Presence of unused variables	Passed
130	Right-To-Left-Override control character (U+202E)	Passed
129	Typographical Error	Passed
128	DoS with block gas limit.	Passed
127	Arbitrary Jump with Function Type Variable	Passed
126	Insufficient Gas Griefing	Passed
125	Incorrect Inheritance Order	Passed
124	Write to Arbitrary Storage Location	Passed
123	Requirement Violation	Passed
122	Lack of Proper Signature Verification	Passed
121	Missing Protection against Signature Replay Attacks	Passed
120	Weak Sources of Randomness from Chain Attributes	Passed
119	Shadowing State Variables	Passed

118	Incorrect Constructor Name	Passed
117	Signature Malleability	Passed
116	Block values as a proxy for time	Not Passed
115	Authorization through tx.origin	Passed
114	Transaction Order Dependence	Passed
113	DoS with Failed Call	Passed
112	Delegatecall to Untrusted Callee	Passed
111	Use of Deprecated Solidity Functions	Passed
110	Assert Violation	Passed
109	Uninitialized Storage Pointer	Passed
108	State Variable Default Visibility	Passed
107	Reentrancy	Passed
106	Unprotected SELFDESTRUCT Instruction	Passed
105	Unprotected Ether Withdrawal	Passed
104	Unchecked Call Return Value	Passed
103	Floating Pragma	Not Passed
102	Outdated Compiler Version	Passed
101	Integer Overflow and Underflow	Passed
100	Function Default Visibility	Passed

Severity Definitions

Risk Level	Description
Critical	Critical vulnerabilities are usually straightforward to exploit and can lead to tokens loss etc.
High	High-level vulnerabilities are difficult to exploit; however, they also have significant impact on smart contract execution, e.g. public access to crucial functions
Medium	Medium-level vulnerabilities are important to fix; however, they can't lead to tokens lose
Low	Low-level vulnerabilities are mostly related to outdated, unused etc. code snippets, that can't have significant impact on execution
Note	Lowest-level vulnerabilities, code style violations and info statements can't affect smart contract execution and can be ignored.

Audit Findings

Critical:

No Critical severity vulnerabilities were found.

High:

No High severity vulnerabilities were found.

Medium:

No Medium severity vulnerabilities were found.

Low:

Hardcoded Wallet Addresses

Description

Limits flexibility. Future deployments can't change this unless the code is redeployed.

```
address public constant TREASURY_WALLET = ...;
```

Recommendation

Pass wallet addresses via `initialize()` and store them in `immutable` or `private/internal` state variables with a setter if truly needed.

Status: **Acknowledged**.

#Missing Receive/Fallback Function

Description

You call `withdrawFunds` using `address(this).balance`, but the contract has no way to **receive ETH** unless it's via a token swap.

Remediation

```
receive() external payable {}.
```

Very Low:

No Very Low severity vulnerabilities were found.

Notes:

#Pragma version not fixed

Description

It is a good practice to lock the solidity version for a live deployment (use 0.8.30 instead of ^0.8.20). contracts should be deployed with the same compiler version and flags that they have been tested the most with. Locking the pragma helps ensure that contracts do not accidentally get deployed using, for example, the latest compiler which may have higher risks of undiscovered bugs. Contracts may also be deployed by others and the pragma indicates the compiler version intended by the original authors. And avoid Solidity compiler Bugs check here

<https://sepolia.etherscan.io/solcbuginfo>

Remediation

Remove the ^ sign to lock the pragma version.

Use of block.timestamp for comparisons

The value of block.timestamp can be manipulated by the miner. And conditions with strict equality is difficult to achieve - block.timestamp.

```
function setListingTime(uint256 _listingTime) external onlyAdmin {
    require(
        _listingTime > block.timestamp,
        "Listing time must be in the future"
    );
    listingTime = _listingTime;
}

function releaseVestedTokens() external
notBlacklisted(msg.sender) {
    require(listingTime > 0, "Listing time not set");
    require(listingTime < block.timestamp, "Vesting not started
yet");
```

Recommendation

Avoid use of block.timestamp.

Automatic Testing

1- SOLIDITY STATIC ANALYSIS

SOLIDITY STATIC ANALYSIS

☒ Select all ☒ Autorun Run

Security

☒ Select Security

- ☒ **Transaction origin:**
'tx.origin' used
- ☒ **Check-effects-interaction:**
Potential reentrancy bugs
- ☒ **Inline assembly:**
Inline assembly used
- ☒ **Block timestamp:**
Can be influenced by miners
- ☒ **Low level calls:**
Should only be used by experienced devs
- ☒ **Block hash:**
Can be influenced by miners
- ☒ **Selfdestruct:**
Contracts using destructed contract can be broken

Gas & Economy

☒ Select Gas & Economy

- ☒ **Gas costs:**
Too high gas requirement of functions
- ☒ **This on local calls:**
Invocation of local functions via 'this'
- ☒ **Delete dynamic array:**
Use require/assert to ensure complete deletion
- ☒ **For loop over dynamic array:**
Iterations depend on dynamic array's size
- ☒ **Ether transfer in loop:**
Transferring Ether in a for/while/do-while loop

SOLIDITY STATIC ANALYSIS

ERC

☒ Select ERC

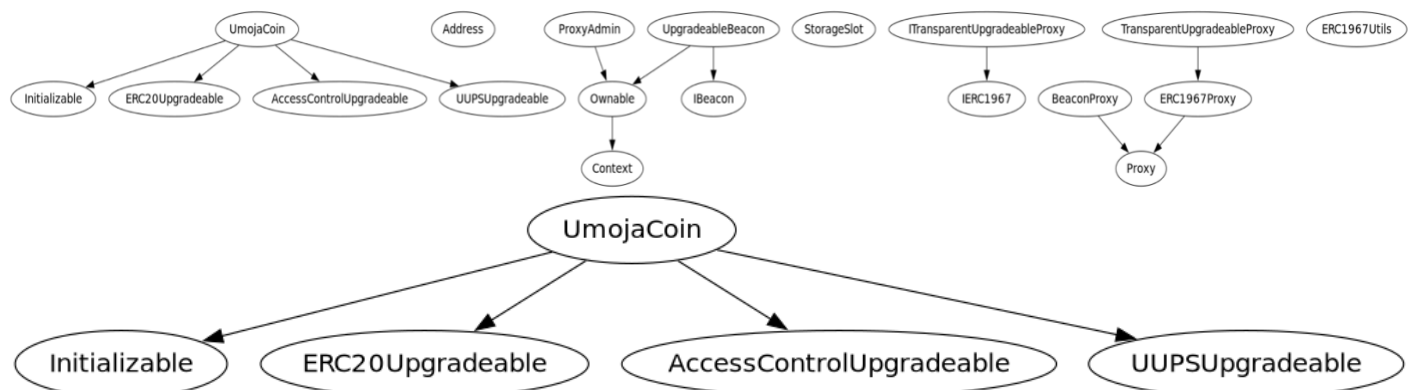
- ☒ **ERC20:**
'decimals' should be 'uint8'

Miscellaneous

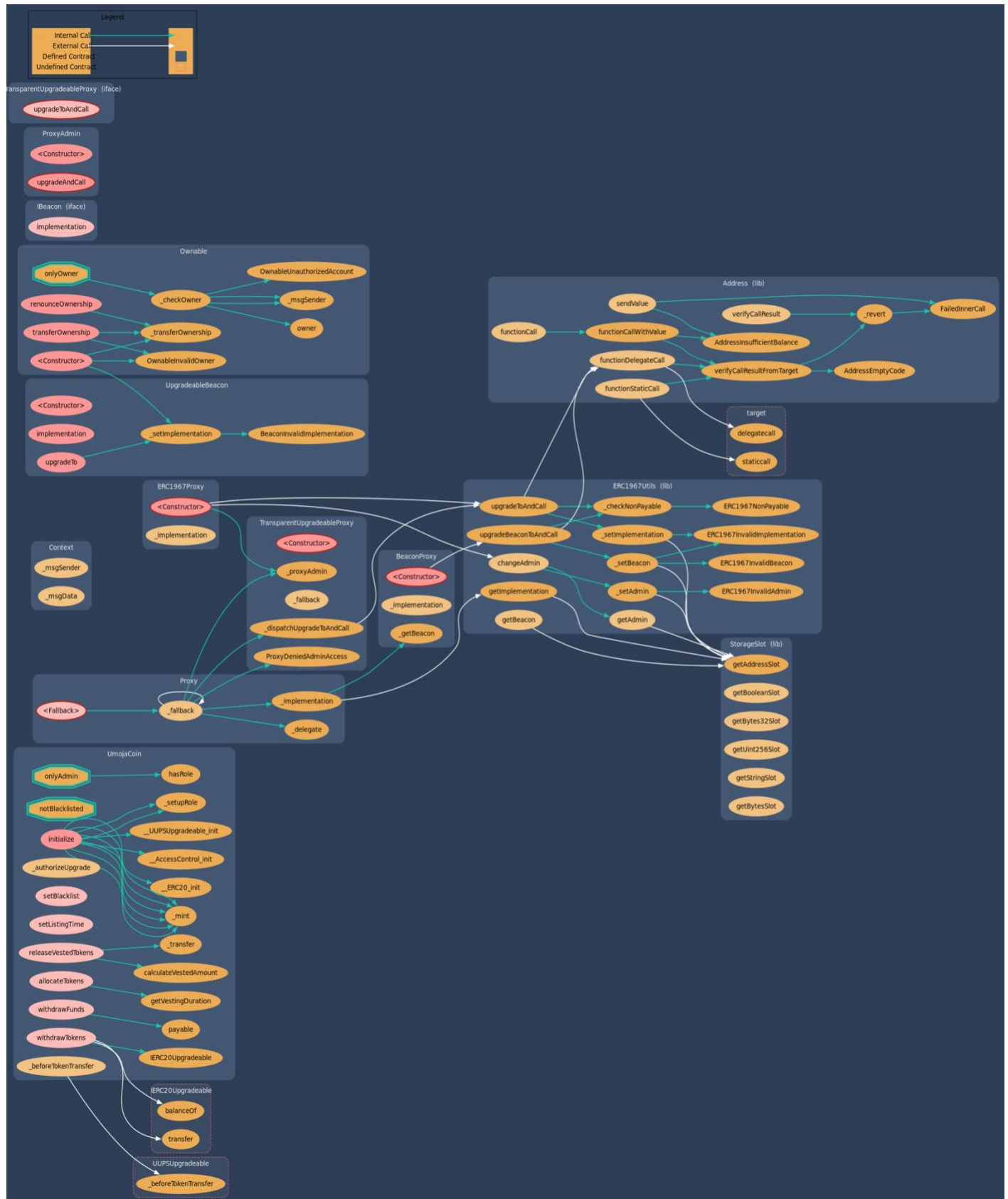
☒ Select Miscellaneous

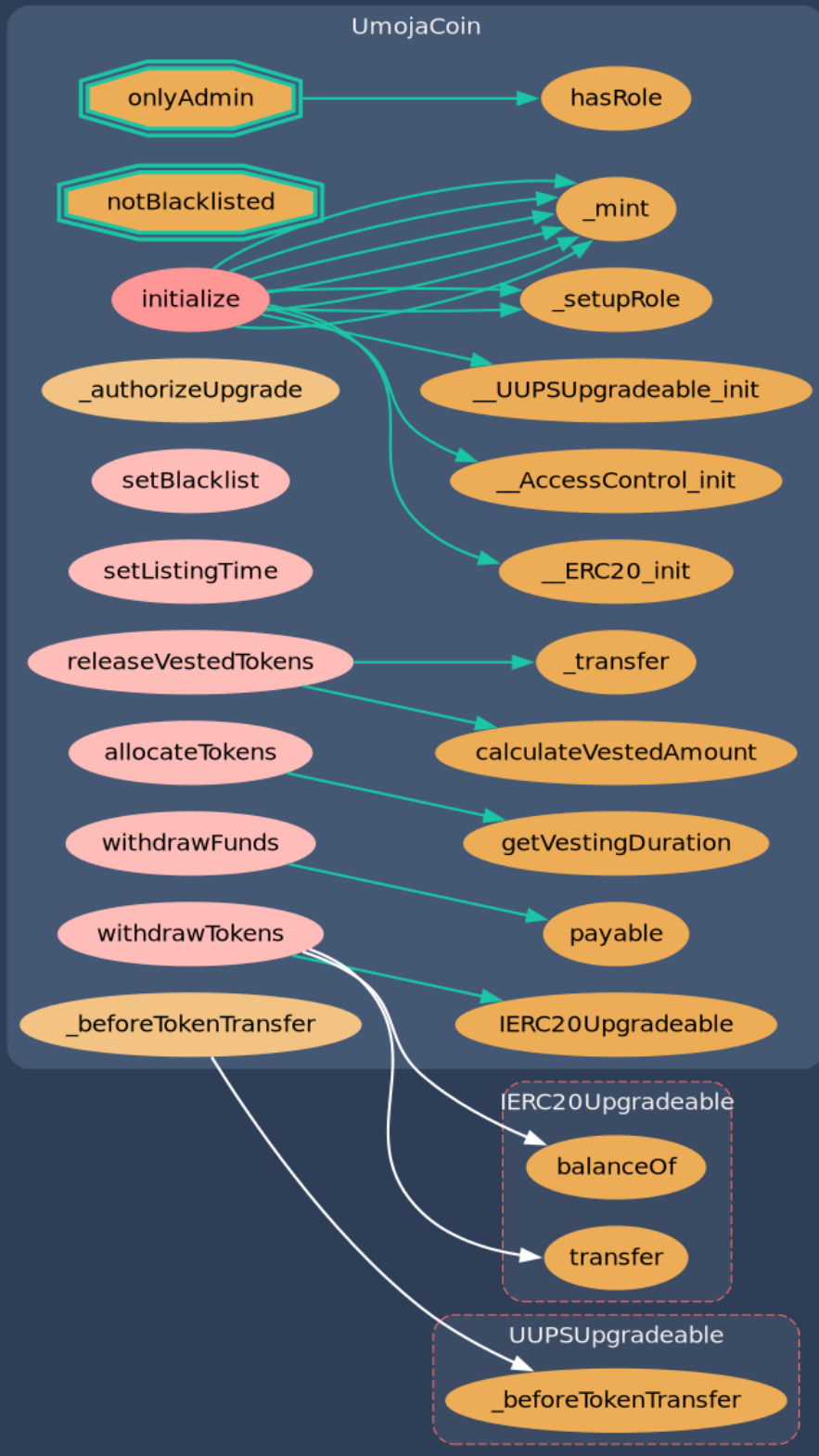
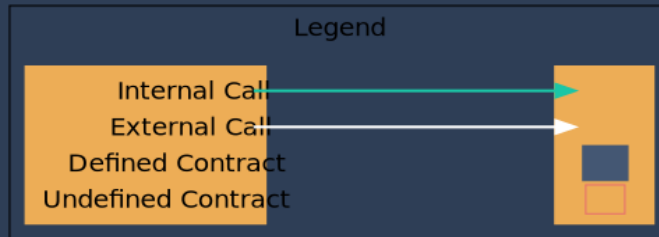
- ☒ **Constant/View/Pure functions:**
Potentially constant/view/pure functions
- ☒ **Similar variable names:**
Variable names are too similar
- ☒ **No return:**
Function with 'returns' not returning
- ☒ **Guard conditions:**
Ensure appropriate use of require/assert
- ☒ **Result not used:**
The result of an operation not used
- ☒ **String length:**
Bytes length != String length
- ☒ **Delete from dynamic array:**
'delete' leaves a gap in array
- ☒ **Data truncated:**
Division on int/uint values truncates the result

2- Inheritance graph

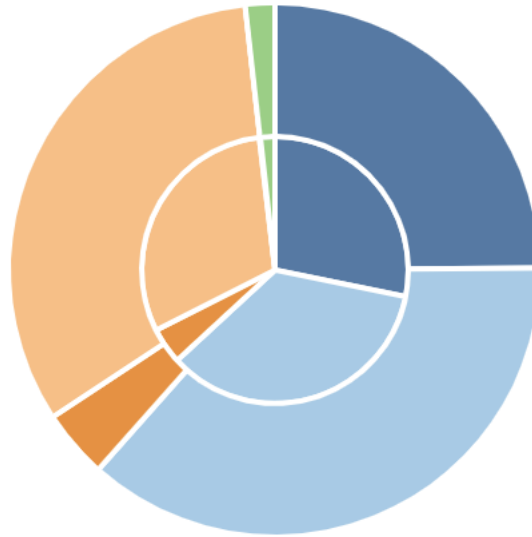


3- Call graph

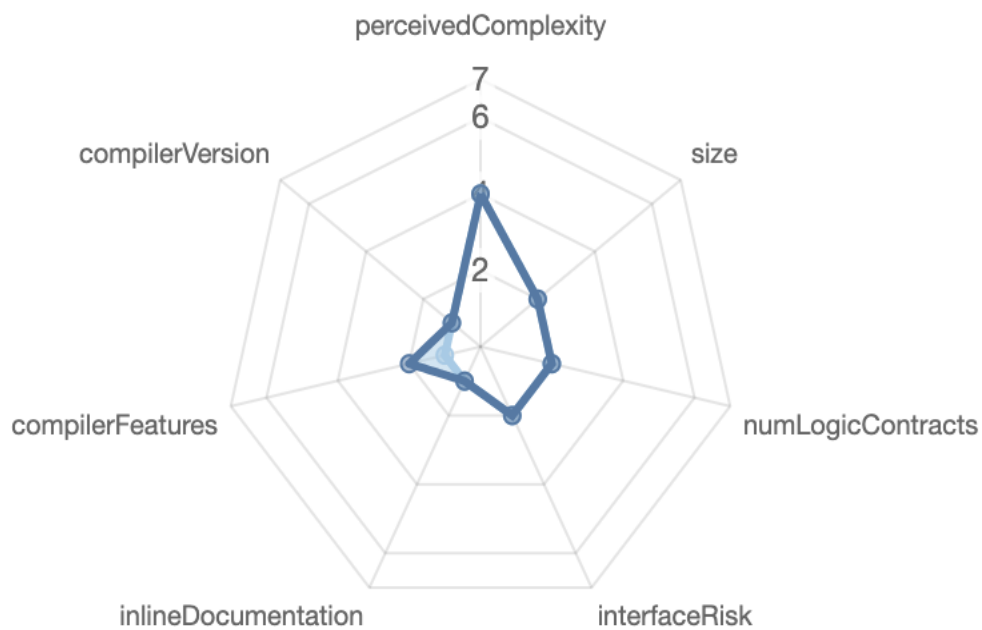




Source lines







Risk level



Source units in scope

Source Units in Scope

Source Units Analyzed: 1
Source Units in Scope: 1 (100%)

Type	File	Logic Contracts	Interfaces	Lines	nLines	nSLOC	Comment Lines	Complex. Score	Capabilities
	UMC.sol	11	3	957	928	404	554	272	
	Totals	11	3	957	928	404	554	272	

Legend: [-]

- **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, ...)

Capabilities

Components

 Contracts	 Libraries	 Interfaces	 Abstract
5	3	3	3

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
9	6

External	Internal	Private	Pure	View
3	57	7	10	15

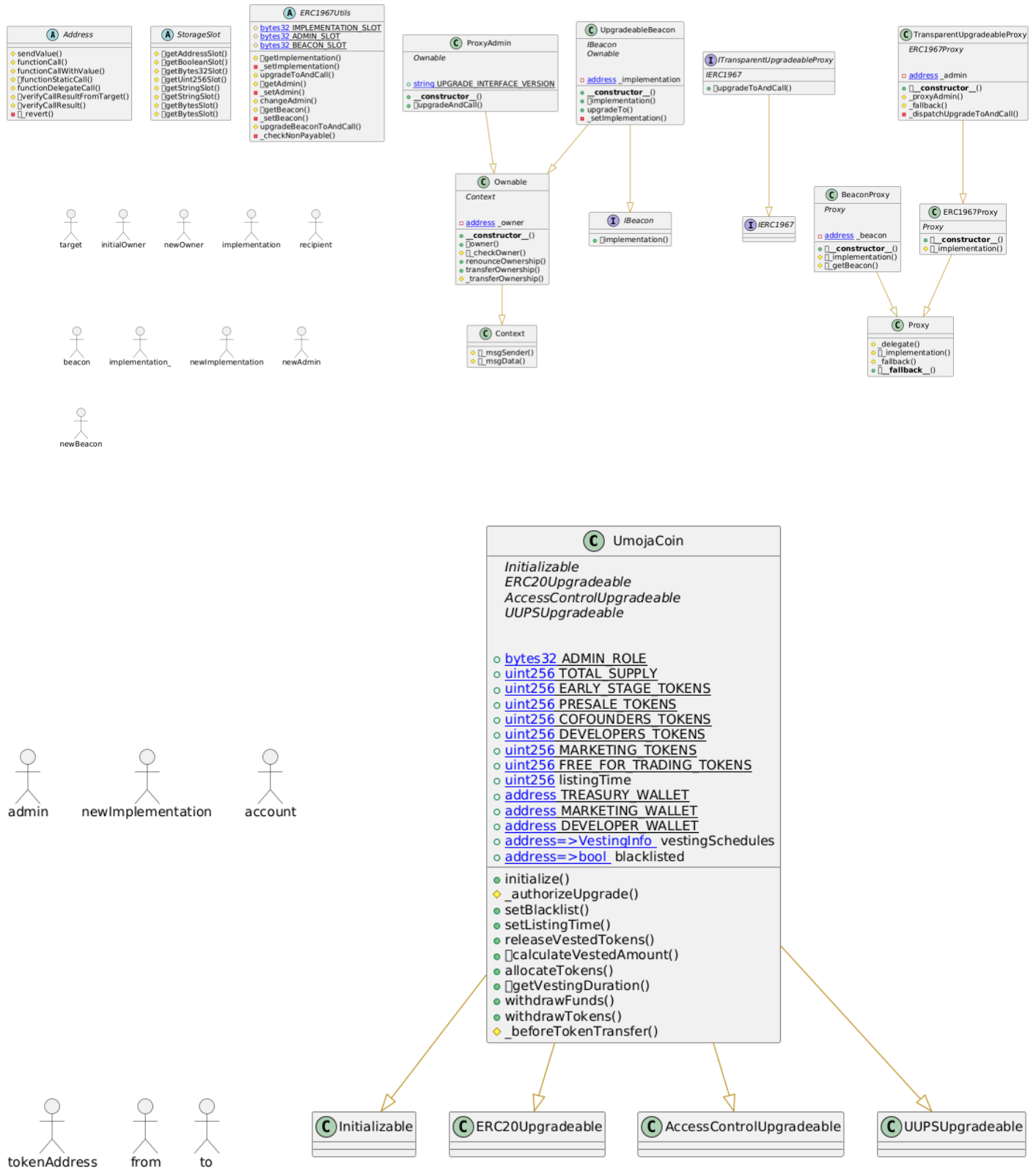
StateVariables

Total	 Public
8	1

Capabilities

Solidity Versions observed	 Experimental Features	 Can Receive Funds	 Uses Assembly	 Has Destroyable Contracts	
<input type="text" value="^0.8.20"/>		<input type="text" value="yes"/>	<input type="text" value="yes (10 asm blocks)"/>		
 Transfers ETH	 Low-Level Calls	 DelegateCall	 Uses Hash Functions	 ECRrecover	 New/Create/Create2
		<input type="text" value="yes"/>			<input type="text" value="yes → NewContract:ProxyAdmin"/>

Unified Modeling Language (UML)



Functions signature

Function Name	Sighash	Function Signature
-----	-----	-----
initialize	c4d66de8	initialize(address)
setBlacklist	153b0dle	setBlacklist(address,bool)
setListingTime	e131d735	setListingTime(uint256)
releaseVestedTokens	54dd1da4	releaseVestedTokens()
calculateVestedAmount	ba114be6	
calculateVestedAmount		(uint256,uint256,uint256,uint8)
allocateTokens	61738c87	allocateTokens(address,uint256,uint8)
getVestingDuration	fe3aa8ea	getVestingDuration(uint8)
withdrawFunds	155dd5ee	withdrawFunds(uint256)
withdrawTokens	06b091f9	withdrawTokens(address,uint256)
owner	8da5cb5b	owner()
renounceOwnership	715018a6	renounceOwnership()
transferOwnership	f2fde38b	transferOwnership(address)
implementation	5c60da1b	implementation()
implementation	5c60da1b	implementation()
upgradeTo	3659cfe6	upgradeTo(address)
upgradeAndCall	9623609d	upgradeAndCall(address,address,bytes)
upgradeToAndCall	9df4d08e	upgradeToAndCall(bytes)
initialize	c4d66de8	initialize(address)
setBlacklist	153b0dle	setBlacklist(address,bool)
setListingTime	e131d735	setListingTime(uint256)
releaseVestedTokens	54dd1da4	releaseVestedTokens()
calculateVestedAmount	ba114be6	
calculateVestedAmount		(uint256,uint256,uint256,uint8)
allocateTokens	61738c87	allocateTokens(address,uint256,uint8)
getVestingDuration	fe3aa8ea	getVestingDuration(uint8)
withdrawFunds	155dd5ee	withdrawFunds(uint256)
withdrawTokens	06b091f9	withdrawTokens(address,uint256)
owner	8da5cb5b	owner()
renounceOwnership	715018a6	renounceOwnership()
transferOwnership	f2fde38b	transferOwnership(address)
implementation	5c60da1b	implementation()
implementation	5c60da1b	implementation()
upgradeTo	3659cfe6	upgradeTo(address)
upgradeAndCall	9623609d	upgradeAndCall(address,address,bytes)
upgradeToAndCall	9df4d08e	upgradeToAndCall(bytes)

Automatic general report

Files Description Table

File Name	SHA-1 Hash
/Users/macbook/Desktop/smart contracts/UMC.sol	5d2ba2062d2d6d4d8306bedb0996931195154ec1

Contracts Description Table

Contract	Type	Bases	
:-----: :-----: :-----: :-----:			
L	**Function Name**	**Visibility**	**Mutability**
Modifiers			
Address	Library		
L	sendValue	Internal	
L	functionCall	Internal	
L	functionCallWithValue	Internal	
L	functionStaticCall	Internal	
L	functionDelegateCall	Internal	
L	verifyCallResultFromTarget	Internal	
L	verifyCallResult	Internal	
L	_revert	Private	
Context	Implementation		
L	_msgSender	Internal	
L	_msgData	Internal	
StorageSlot	Library		
L	getAddressSlot	Internal	
L	getBooleanSlot	Internal	
L	getBytes32Slot	Internal	
L	getUint256Slot	Internal	
L	getStringSlot	Internal	
L	getStringSlot	Internal	
L	getBytesSlot	Internal	
L	getBytesSlot	Internal	
Ownable	Implementation	Context	
L	<Constructor>	Public	NO
L	owner	Public	NO
L	_checkOwner	Internal	
L	renounceOwnership	Public	onlyOwner
L	transferOwnership	Public	onlyOwner
L	_transferOwnership	Internal	
IERC1967	Interface		


```

|  **Proxy** | Implementation | |||
|  L | _delegate | Internal 🔒 | 🔒 | |
|  L | _implementation | Internal 🔒 | | |
|  L | _fallback | Internal 🔒 | 🔒 | |
|  L | <Fallback> | External ! | 📄 | NO! |
|  |||||
|  **BeaconProxy** | Implementation | Proxy |||
|  L | <Constructor> | Public ! | 📄 | NO! |
|  L | _implementation | Internal 🔒 | | |
|  L | _getBeacon | Internal 🔒 | | |
|  |||||
|  **IBeacon** | Interface | |||
|  L | implementation | External ! | | NO! |
|  |||||
|  **UpgradeableBeacon** | Implementation | IBeacon, Ownable |||
|  L | <Constructor> | Public ! | 🔒 | Ownable |
|  L | implementation | Public ! | | NO! |
|  L | upgradeTo | Public ! | 🔒 | onlyOwner |
|  L | _setImplementation | Private 🔒 | 🔒 | |
|  |||||
|  **ERC1967Proxy** | Implementation | Proxy |||
|  L | <Constructor> | Public ! | 📄 | NO! |
|  L | _implementation | Internal 🔒 | | |
|  |||||
|  **ERC1967Utils** | Library | |||
|  L | getImplementation | Internal 🔒 | | |
|  L | _setImplementation | Private 🔒 | 🔒 | |
|  L | upgradeToAndCall | Internal 🔒 | 🔒 | |
|  L | getAdmin | Internal 🔒 | | |
|  L | _setAdmin | Private 🔒 | 🔒 | |
|  L | changeAdmin | Internal 🔒 | 🔒 | |
|  L | getBeacon | Internal 🔒 | | |
|  L | _setBeacon | Private 🔒 | 🔒 | |
|  L | upgradeBeaconToAndCall | Internal 🔒 | 🔒 | |
|  L | _checkNonPayable | Private 🔒 | 🔒 | |
|  |||||
|  **ProxyAdmin** | Implementation | Ownable |||
|  L | <Constructor> | Public ! | 🔒 | Ownable |
|  L | upgradeAndCall | Public ! | 📄 | onlyOwner |
|  |||||
|  **ITransparentUpgradeableProxy** | Interface | IERC1967 |||
|  L | upgradeToAndCall | External ! | 📄 | NO! |
|  |||||
|  **TransparentUpgradeableProxy** | Implementation | ERC1967Proxy |||
|  L | <Constructor> | Public ! | 📄 | ERC1967Proxy |
|  L | _proxyAdmin | Internal 🔒 | 🔒 | |
|  L | _fallback | Internal 🔒 | 🔒 | |
|  L | _dispatchUpgradeToAndCall | Private 🔒 | 🔒 | |
|  |||||
|  **UmojaCoin** | Implementation | Initializable, ERC20Upgradeable,
AccessControlUpgradeable, UUPSUpgradeable |||

```

L	initialize	Public	!		initializer	
L	_authorizeUpgrade	Internal				onlyAdmin
L	setBlacklist	External	!		onlyAdmin	
L	setListingTime	External	!		onlyAdmin	
L	releaseVestedTokens	External	!		notBlacklisted	
L	calculateVestedAmount	Public	!		NO	!
L	allocateTokens	External	!		onlyAdmin	
L	getVestingDuration	Public	!		NO	!
L	withdrawFunds	External	!		onlyAdmin	
L	withdrawTokens	External	!		onlyAdmin	
L	_beforeTokenTransfer	Internal				

Legend

Symbol	Meaning
:-----:	-----
	Function can modify state
	Function is payable

Conclusion

The contracts are written systematically. Team found no critical issues. So, it is good to go for production.

Since possible test cases can be unlimited and developer level documentation (code flow diagram with function level description) not provided, for such an extensive smart contract protocol, we provide no such guarantee of future outcomes. We have used all the latest static tools and manual observations to cover maximum possible test cases to scan Everything.

Security state of the reviewed contract is “Well Secured”.

- ✓ No volatile code.
- ✓ No high severity issues were found.

Disclaimer

This is a limited report on our findings based on our analysis, in accordance with good industry practice as of the date of this report, in relation to cybersecurity vulnerabilities and issues in the framework and algorithms based on smart contracts, the details of which are set out in this report. In order to get a full view of our analysis, it is crucial for you to read the full report. While we have done our best in conducting our analysis and producing this report, it is important to note that you should not rely on this report and cannot claim against the team on the basis of what it says or doesn't say, or how team produced it, and it is important for you to conduct your own independent investigations before making any decisions. team go into more detail on this in the below disclaimer below – please make sure to read it in full.

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