Smart Contract Security Audit V1

Vesting Implementation Smart Contract Audit

Jun 30, 2025



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https://t.me/SFI_ANN

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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: Binance Smart Chain

• Name: VestingImplementation

• Language : Solidity

• Contract Address: 0x3cf3d6877320131c639a0d4ac08063bbebd29dac

• Code Source: https://github.com/TerraDharitri/drt-pREWA/tree/main/contracts



VestingImplementation:

Token Vesting Schedule Manager

Contract Overview

- Purpose: Managses linear ERe+1.0 tonens for a specificary over a specified period with eptional cliff and revocation
- Use Case: MIT
- Solidity Version: 0.8.28.

Key Components

Component	Description				
Imports	Sets up vesting schedule with (ERC20)				
Inhertance	Token, beneficcary, start time, total duration. total duration				
Modifiers	Vesting Storage IVesting. Emergen ware, EmergencyAwareBase				

· Use Case: MIT

Key Features:

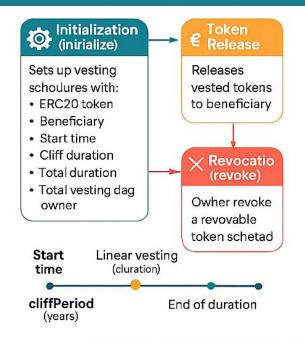
l 1 u Initializalietinl), struct

Inerrerat YGuerd, Upgradeaable, VstrgControloller, EmergencyAware, EmergencyController, errors, Constants, EmergencyAwareBase

Revocation

- vested Amount (timesfamp): calculates vested after cliff
- return unvested tokens to beneficlary
- ErmuViets/fevokd: event

Core Functionality



Events

- OwnershipTransfered
- EmergencyControllerSet
- OracleIntegrationSet
- TokensReleased
- VestingRevoked

Security Features

- Upgradeability uses, initializable forproxy compatibility
- Reentrancy Protection
 ReennergencyGuardUpgradable
- Safe Transfers
 Safet RC20Upgradable for secure token tiransters
- Emergency Protocol Integration with Emergenveystemwide pauses

Executive Summary

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



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, 1 low, 0 very low-level issues and 3 notes in all solidity files of the contract

The files:

VestingImplementation.sol

Audit Score:

99% secure



File and Function Level Report

File in Scope:

Contract Name	SHA 256 hash	Contract Address
VestingImplementation.so	ca981ea3841d8d1e6371b a6f4148f0fe72524502	0x3cf3d6877320131c639a0d4ac08063bbebd29 dac

• Contract: VestingImplementation

• Inherit: Initializable, ReentrancyGuardUpgradeable, VestingStorage, IVesting, EmergencyAwareBase

• Observation: All passed including security check

• Test Report: passed

• Score: passed

• Conclusion: passed

Function	Test Result	Type / Return Type	Score
checkEmergencyStatus	√	Read / public	Passed
emergencyController	√	Read / public	Passed
getEmergencyController	√	Read / public	Passed
getFactoryAddress	√	Read / public	Passed
getTokenAddress	√	Read / public	Passed
getVestingSchedule	√	Read / public	Passed
isEmergencyPaused	√	Read / public	Passed
oracleIntegration	√	Read / public	Passed
owner	√	Read / public	Passed
releasableAmount	√	Read / public	Passed
vestedAmount	√	Read / public	Passed
emergencyShutdown	√	Write / public	Passed
renounceOwnership	√	Write / public	Passed
transferOwnership	√	Write / public	Passed

initialize	√	Write / public	Passed
initialize	✓	Write / public	Passed
release	√	Write / public	Passed
revoke	√	Write / public	Passed
setEmergencyController	√	Write / public	Passed
setOracleIntegration	√	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	2 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:

owner vs. OpenZeppelin's OwnableUpgradeable

Description

The contract implements its own _owner state variable, onlyOwner modifier, OwnershipTransferred event, and transferOwnership function. This is a common pattern for contracts that don't inherit OpenZeppelin's OwnableUpgradeable. However, given the project uses OpenZeppelin extensively, it's worth noting this custom implementation. While not an immediate vulnerability, it deviates from the standard pattern and means any new owner-related features in OwnableUpgradeable (e.g., renounceOwnership) would need to be manually implemented or accounted for.

Recommendation

Current implementation is acceptable if intentional: If the design specifically requires that each vesting contract has its own _owner that is not tied to OwnableUpgradeable's standard, then the current approach is functional. The custom onlyOwner is correctly implemented.(so it is normal in large project)

Very Low:

No Very Low severity vulnerabilities were found.

Notes:

#Pragam version not fixed

Description

It is a good practice to lock the solidity version for a live deployment (use 0.8.28 instead of ^0.8.28). 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.

```
if (tokenAddress_ == address(0)) revert Vesting_TokenZero();
    if (beneficiaryAddress_ == address(0)) revert
Vesting_BeneficiaryZero();
    if (initialOwnerAddress_ == address(0)) revert
Vesting_OwnerZeroV();
    if (durationValue_ == 0) revert Vesting_DurationZero();
    if (totalVestingAmount_ == 0) revert Vesting_AmountZeroV();
    if (cliffDurationValue_ > durationValue_) revert
Vesting_CliffLongerThanDuration();
    if (startTimeValue_ < block.timestamp && startTimeValue_!=
0) revert Vesting_StartTimeInvalid();</pre>
```

Recommendation

Avoid use of block.timestamp.

#Unused Parameter in checkEmergencyStatus

Description

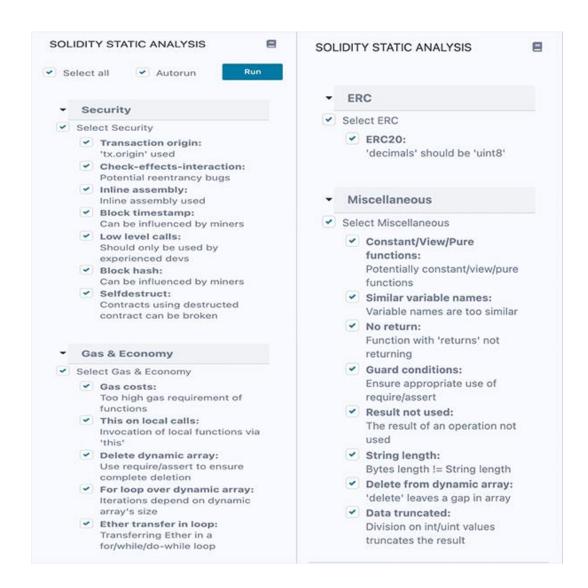
The checkEmergencyStatus function has a parameter bytes4 that is not used within the function body. This adheres to the IEmergencyAware interface, so it's not a functional bug, but it's good to note.

Recommendation

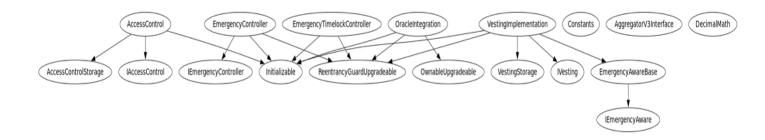
This is an interface requirement, so no change is needed within this contract. It's simply an observation. If you control the interface, you could consider if that parameter is always necessary.

Automatic Testing

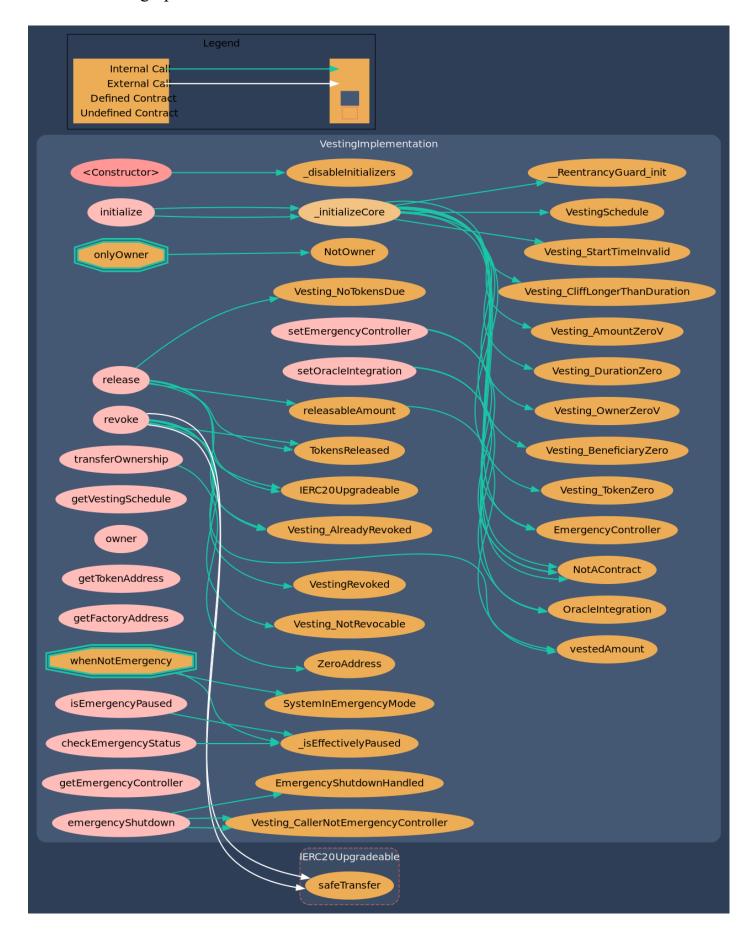
1- SOLIDITY STATIC ANALYSIS



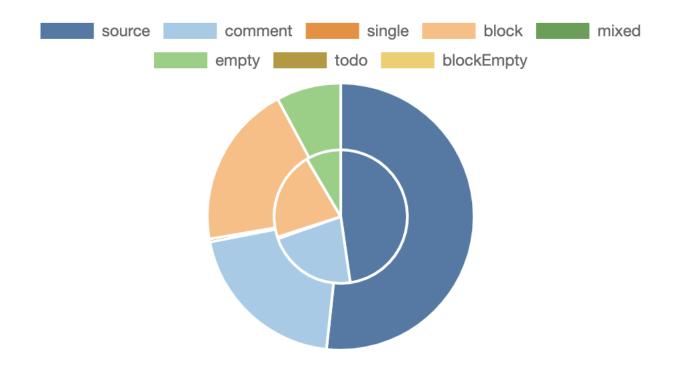
2- Inheritance graph



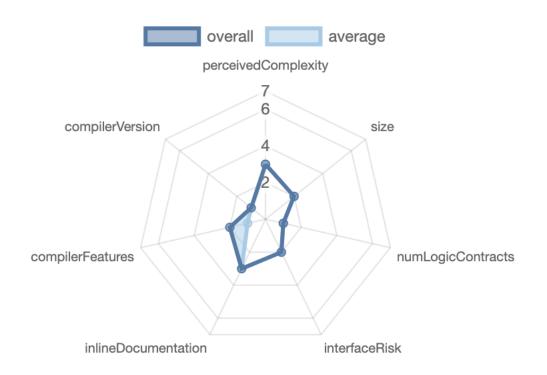
3- Call graph



Source lines



Risk level



Source units in scope

Source Units in Scope

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

Туре	File	Logic Contracts	Interfaces	Lines	nLines	nSLOC	Comment Lines	Complex. Score	Capabilities
2	contracts/vesting/VestingImplementation.sol	1		418	378	231	106	178	
2	Totals	1	-	418	378	231	106	178	

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, ...)

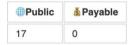
Capabilities

Components



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	
15	11	0	0	9	

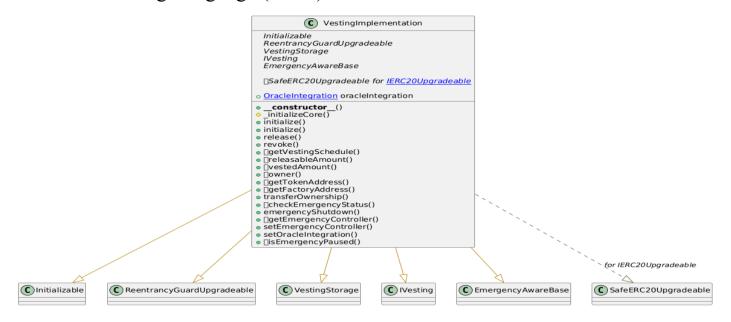
StateVariables



Capabilities



Unified Modeling Language (UML)



Functions signature

```
| Function Name | Sighash
                            | Function Signature |
| initialize | 3811ddea |
initialize (address, address, uint256, uint256, uint256, bool, uint256, address,
address, address) |
| initialize | 318449be |
initialize (address, address, uint256, uint256, uint256, bool, uint256, address)
| release | 86d1a69f | release() |
| revoke | b6549f75 | revoke() |
| getVestingSchedule | 3a05f0d8 | getVestingSchedule() |
| releasableAmount | 5b940081 | releasableAmount() |
| vestedAmount | 1bfce853 | vestedAmount(uint256) |
| owner | 8da5cb5b | owner() |
| getTokenAddress | 10fe9ae8 | getTokenAddress() |
| getFactoryAddress | a9c2e36c | getFactoryAddress()
| transferOwnership | f2fde38b | transferOwnership(address) |
| checkEmergencyStatus | 8aed668a | checkEmergencyStatus(bytes4) |
| emergencyShutdown | eb1676c1 | emergencyShutdown(uint8) |
| getEmergencyController | c993cc9d | getEmergencyController() |
| setEmergencyController | 6ca7dc89 | setEmergencyController(address) |
| setOracleIntegration | a9361199 | setOracleIntegration(address) |
| isEmergencyPaused | 290d10c4 | isEmergencyPaused() |
```

Automatic general report

```
Files Description Table
   File Name | SHA-1 Hash
|----|
| /Users/macbook/Desktop/drt-
pREWA/contracts/vesting/VestingImplementation.sol |
ca981ea3841d8d1e6371ba6f4148f0fe72524502
| /Users/macbook/Desktop/drt-
pREWA/contracts/vesting/storage/VestingStorage.sol |
9bd80c22ca7b0ab86006be628fa326f59af151a2 |
| /Users/macbook/Desktop/drt-
pREWA/contracts/vesting/interfaces/IVesting.sol |
6c98d2baafb89fa90585b23233948daed42670fc
| /Users/macbook/Desktop/drt-
pREWA/contracts/interfaces/IEmergencyAware.sol |
be6e0a371b0a5f62d5c7dc06e5c0c4121dcc7ca1 |
| /Users/macbook/Desktop/drt-
pREWA/contracts/controllers/EmergencyController.sol |
8e73765eaa98f95db8f5eb7a40cd13b0dc845266 |
| /Users/macbook/Desktop/drt-pREWA/contracts/access/AccessControl.sol |
40163fa249f10365c03cf1fa9ddd26e2f6eb1005 |
| /Users/macbook/Desktop/drt-
pREWA/contracts/access/storage/AccessControlStorage.sol |
2a1f4c3d6956a89011b090a62b15254b1d720d65
| /Users/macbook/Desktop/drt-
pREWA/contracts/access/interfaces/IAccessControl.sol |
540ec54eaade1c05a650af086ebf959654ec6322 |
| /Users/macbook/Desktop/drt-pREWA/contracts/libraries/Errors.sol |
0974f6f49e3b655fa93a2792154f1b506ec03c74 |
| /Users/macbook/Desktop/drt-
pREWA/contracts/interfaces/IEmergencyController.sol |
40bc149ec8a1da85c0e4c6170b06f3a0f3b77f3b |
| /Users/macbook/Desktop/drt-
pREWA/contracts/controllers/EmergencyTimelockController.sol |
94735e88ad7f750ead488b7ad618b1486cbdb483 |
| /Users/macbook/Desktop/drt-pREWA/contracts/libraries/Constants.sol |
62835a8af9d7ab21c0cad9ca03abff6cf4e8e68f
| /Users/macbook/Desktop/drt-pREWA/contracts/oracle/OracleIntegration.sol
 56835e91c3d168cbc4e565e742c575c2117bb3bb |
| /Users/macbook/Desktop/drt-
pREWA/contracts/interfaces/AggregatorV3Interface.sol |
008fa0a63980b32bdecef492c7da1ae5b441a5c3 |
| /Users/macbook/Desktop/drt-pREWA/contracts/libraries/DecimalMath.sol |
1f5b0a2a73498dc5cb877c08aea3c971646fb4a5 |
| /Users/macbook/Desktop/drt-pREWA/contracts/utils/EmergencyAwareBase.sol
| 528be04847c5d3cf03edd961c878359eb3cafc6a |
 Contracts Description Table
  Contract |
                       Type
                                           Bases
```

```
| **Function Name** | **Visibility** | **Mutability**
| **Modifiers** |
| **VestingImplementation** | Implementation | Initializable,
ReentrancyGuardUpgradeable, VestingStorage, IVesting, EmergencyAwareBase
 L | <Constructor> | Public | |
 L | initializeCore | Internal 🖺 | 🔘 | |
 └ | initialize | External | | ● | initializer |
 L | initialize | External | | | | initializer |
 L | release | External | | ● | nonReentrant whenNotEmergency |
 revoke | External | onlyOwner nonReentrant |
 L | getVestingSchedule | External | | NO | |
 | vestedAmount | Public | | NO |
 | owner | External | | NO | |
 └ | getTokenAddress | External │ | | NO │ |
 L | checkEmergencyStatus | External | | | | | | | | |
 | emergencyShutdown | External | | | NO | |
 | isEmergencyPaused | External | | | NO | |
| **VestingStorage** | Implementation | ||
| **IVesting** | Interface | |||
| L | initialize | External | |
release | External | | NO | |
 revoke | External | | NO | NO
| L | getVestingSchedule | External | | | NO| |
 releasableAmount | External | | NO
 | vestedAmount | External | | NO | | | | |
| L | owner | External | | NO | |
| **IEmergencyAware** | Interface | |||
| L | checkEmergencyStatus | External | | | NO| |
| L | emergencyShutdown | External | | | NO| | |
 L | getEmergencyController | External | | | NO | |
 L | setEmergencyController | External | | NO | |
| | isEmergencyPaused | External | | | NO | |
| **EmergencyController** | Implementation | Initializable,
ReentrancyGuardUpgradeable, IEmergencyController | | |
| Constructor> | Public | | NO |
| L | initialize | External | | O | initializer |
```

```
\mid L \mid setRequiredApprovals \mid External \boxed{\phantom{a}}\mid OnlyAdminRole \mid
| L | setLevel3TimelockDuration | External | | OnlyAdminRole |
| L | setRecoveryAdminAddress | External | | OnlyAdminRole |
| L | approveLevel3Emergency | External | | OnlyEmergencyRole
nonReentrant |
nonReentrant |
| L | executeLevel3Emergency | External | | OnlyEmergencyRole
nonReentrant |
| | | setEmergencyLevel | External [ | [ ] | onlyEmergencyRole
nonReentrant |
| L | enableEmergencyWithdrawal | External | | OnlyEmergencyRole
nonReentrant |
| L | pauseSystem | External | | OnlyPauserRole nonReentrant |
L | unpauseSystem | External | | onlyPauserRole nonReentrant | l | recoverTokens | External | onlyEmergencyRole nonReentrant
| | registerEmergencyAwareContract | External | |
onlyEmergencyRole |
onlyEmergencyRole |
| getEmergencyLevel | External | | NO |
 L | getEmergencyWithdrawalSettings | External | | | NO| |
 | isSystemPaused | External | | NO | |
| L | getEmergencyAwareContractsPaginated | External | NO | |
 L | getApprovalStatus | External | | | NO | |
| | isFunctionRestricted | External | | NO |
| L | resetApprovals | Internal A | O | |
| **AccessControl** | Implementation | Initializable,
AccessControlStorage, IAccessControl | | |
| Constructor> | Public | | NO | | | | |
 | | initialize | External | | | | | initializer |
 | getRoleAdmin | External | | NO | |
 |NO|| |
 renounceRole | External | | NO | |
 L | setRoleAdmin | External | | NO | |
 L | getRoleMember | External | | | | NO| |
 | getRoleMembersPaginated | External | |
 L | grantRole | Internal 🖺 | 🔘 | |
L | revokeRole | Internal 🖺 | 🔘 | |
 L | setRoleAdmin | Internal 🖺 | 🔘 | |
| **AccessControlStorage** | Implementation | |||
| **IAccessControl** | Interface | ||
```

```
| hasRole | External | | NO | |
   L | getRoleAdmin | External | | | NO | |
                                                            |иоЙ |
   L | grantRole | External | | ●
| L | revokeRole | External | | NO | |
   renounceRole | External | | NO | |
   | getRoleMember | External | | | NO | |
   | getRoleMemberCount | External | | | NO | |
    | getRoleMembersPaginated | External | | | NO | |
| **IEmergencyController** | Interface | |||
   | enableEmergencyWithdrawal | External | | | NO | |
   pauseSystem | External | | NO | |
   L | unpauseSystem | External | | Control | | Control | | Control |
   L | getEmergencyLevel | External | | NO| |
| L | getEmergencyWithdrawalSettings | External | | | NO| |
   | isSystemPaused | External | | NO | |
| L | getEmergencyAwareContractsPaginated | External | NO | |
| **EmergencyTimelockController** | Implementation | Initializable,
ReentrancyGuardUpgradeable | | |
| initialize | External | | | initializer |
| L | setAllowedTarget | External | | OnlyEmergencyRole |
| L | setAllowedFunctionSelector | External | | OnlyEmergencyRole
   nonReentrant |
| L | executeEmergencyAction | External | | OnlyEmergencyRole
nonReentrant |
| L | cancelEmergencyAction | External | | OnlyEmergencyRole
nonReentrant |
| L | updateTimelockDuration | External | | D
                                                                                   | onlyEmergencyRole |
   | getActionStatus | External | NO | | | | |
                                                                   |NO| |
| L | getAllActionIds | External | |
| L | getActionDetails | External | | NO | |
| L | isFunctionSelectorAllowed | External | |
| L | isTargetAllowed | External | | | NO| |
| **Constants** | Library |  |||
| **OracleIntegration** | Implementation | Initializable,
OwnableUpgradeable, ReentrancyGuardUpgradeable |||
| L | <Constructor> | Public | | ● | NO| |
| L | initialize | External | | O | initializer |
| L | registerLPToken | External | | OnlyLiquidityManagerOrOwner
nonReentrant |
| L | setFallbackPrice | External | | OnlyOwner nonReentrant |
```

```
L | setMinAcceptablePrice | External | | OnlyOwner nonReentrant
 | getTokenPrice | Public | | NO | |
 | | fetchAndReportTokenPrice | External | |
                                      | nonReentrant |
 L | getLPTokenValue | External | | NO | |
 L | getLPTokenValueAlternative | External | |
 L | getPriceFromOracle | Private 🖺 | | |
 L | fetchAndReportPriceFromOracle | Private 🖺 | 🔘 | |
 - | verifyPriceFeed | Private 🖺 | | |
 L | getPriceFeedDecimals | Private 🖺 |
 L | getTokenDecimals | Private 🖺 | | |
 | getLPTokenInfo | External | | NO | |
 L | getStalenessThreshold | External | | NO| |
 | getMinAcceptablePrice | External | | NO | | |
| **AggregatorV3Interface** | Interface | ||
 | decimals | External | | | NO | |
 L | description | External | | | NO | |
 └ | version | External │ | | NO │ |
 latestRoundData | External | | NO | |
 L | getRoundData | External | | | NO | |
**DecimalMath** | Library | |||
 L | mulScaled | Internal 🖺 | | |
 L | divScaled | Internal 🖰 |
 L | mulDiv | Internal A | | |
 calculatePercentage | Internal 🖺 |
 | applySlippage | Internal | |
 L | scaleUp | Internal 🦰 | | |
 | weightedAverage | Internal 🖺 |
 L | compound | Internal 🖺 | | |
| **EmergencyAwareBase** | Implementation | IEmergencyAware |||
| L | isEffectivelyPaused | 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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