# Smart Contract Security Audit V1

# **Price Guard Smart Contract Audit**

Jun 29, 2025



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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: PriceGuard

• Language : Solidity

• **Contract Address**: 0x0cd9b44996422b4506b1e9132dba3012527475e2, 0x957b4b03c9e343f5818b2d0574f756d8efab9fcb

• Code Source: <a href="https://github.com/TerraDharitri/drt-pREWA/tree/main/contracts">https://github.com/TerraDharitri/drt-pREWA/tree/main/contracts</a>

# **PriceGuard**

# Protecting DeFi Swaps from Price Manlpulation

A secure, upgradeable bolidity contract to ensure fair pricing and initigate front-running in decentralized trading.

#### Overview

Purpose: Protects against price mannipulation and frigh blippage in DeFl awaps:

Author: Rows License: MIT 0.8.29

### **Key Features:**

- Validates price impact against oracle prices.
- Implements slippage checks
- Uses a commit reveal scheme to prevent front-running
- Integrates with Dracleintegration and EmergencyController
- Upgradeable with Open Zeppelin's Initializablle Ownable and ReentrancyGuuard

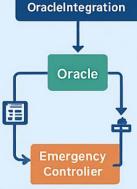
## **Key Parameters**

#### **Price Protection**

- > checkPriceImpact Compates & commitment hash
- > gatzExicyImpact Intergtve staken approviable

#### mhn4cceptablePrice

Feruties token price ratio from oracle



#### calculateMinimumOutput

Calculates suppage

## **Key Func tions**

- PriceImpactExcessed
- Upgradeability: Uses inscuraton definer tiles

COMIT **EXECUTE** ..>

Δ

### Core Components

#### Contracts & Libraries

Inherits Initializable

- · Ensures upgradcaaability.
- OwnableUpgradable: Resticts sensitive functions to the owiter
- ReentrancyGuardUpgradable Prevents reentrancy attacks

Interfaces with hamorgency controls

Libraries: DecimalMeth

Math (OpenZoppeim). Safe math ogerations

Constants: Defines system constants including BPS. MAX. EMERGENCY. LEVEL, NGRMAL)

Errors: Custem error messages for reverts

### Key Functions

### Price & Slippage Checks checkPriceImpact

- Estriesa,pr Inppact validates trade
- Commt-revea procemment stations

### Comniguration

- checkPricExipatity
- emergencyShutd
- IsEmergencyPaused
- Emergency Handling

- Eraates • Emlik Reget arin=
- Prevene block delay

### verifyComhitment

 Projucs loday Bluck debly Freven fhent rules



- Blackobiay rales

## Security Features

- Reentrancy Protection Resetifl ancyQuardUpgroadable
- Upgradeability Uses Initialtizable to support future upgrades
- Scalability Designed for sDeFI platforms needing sesure price validation

### Usage **Notes**

#### Deployment

· thtours with oution scodes and athergene-/ comioher eoptessss

### Restrictions

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SPDX License:MIT

SPX 0.8.8

## **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 1 note in all solidity files of the contract

The files:

PriceGuard.sol

# **Audit Score:**

100% secure



# File and Function Level Report

# File in Scope:

Contract Name	SHA 256 hash	Contract Address
IF LICECTUALCESOL	28b3b3389997bc046b91 5bbb7a579b615ca0597b	0x0cd9b44996422b4506b1e9132dba30125274 75e2, 0x957b4b03c9e343f5818b2d0574f756d8efab9f cb

• Contract: PriceGuard

• Inherit: Initializable, OwnableUpgradeable, ReentrancyGuardUpgradeable, IEmergencyAware

• Observation: All passed including security check

• Test Report: passed

• Score: passed

• Conclusion: passed

Function	Test Result	Type / Return Type	Score
calculateMinimumOutpu t	<b>√</b>	Read / public	Passed
commitmentBlocks	<b>√</b>	Read / public	Passed
commitmentCreators	<b>√</b>	Read / public	Passed
commitments	<b>√</b>	Read / public	Passed
getExpectedPrice	<b>√</b>	Read / public	Passed
checkEmergancyState	<b>√</b>	Read / public	Passed
emergencyController	<b>√</b>	Read / public	Passed
maxBlockDelay	<b>√</b>	Read / public	Passed
owner	<b>√</b>	Read / public	Passed
isEmergencyPaused	<b>√</b>	Read / public	Passed
getEmergencyController	<b>√</b>	Read / public	Passed
maxPriceDeviationEmer gency	<b>√</b>	Read / public	Passed
maxPriceDeviationNorm al	<b>√</b>	Read / public	Passed

maxPriceImpactEmerge ncy	<b>√</b>	Read / public	Passed
maxPriceImpactNormal		Read / public	Passed
minAcceptablePrice	<b>✓</b>	Read / public	Passed
minBlockDelay	<b>✓</b>	Read / public	Passed
oracleIntegration	<b>✓</b>	Read / public	Passed
preventFrontRunning	<b>√</b>	Read / public	Passed
validateSlippage	<b>√</b>	Read / public	Passed
checkPriceImpact	<b>√</b>	Write / public	Passed
renounceOwnership	<b>√</b>	Write / public	Passed
transferOwnership	<b>√</b>	Write / public	Passed
emergencyShutdown	<b>√</b>	Write / public	Passed
initialize	<b>√</b>	Write / public	Passed
setCommitRevealParam eters	<b>√</b>	Write / public	Passed
registerCommitment	<b>√</b>	Write / public	Passed
setMinAcceptablePrice		Write / public	Passed
setEmergencyController	<b>√</b>	Write / public	Passed
setOracleIntegration	<b>√</b>	Write / public	Passed
setPriceGuardParameter s	<b>√</b>	Write / public	Passed
verifyCommitment	<b>√</b>	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 <a href="https://swcregistry.io/">https://swcregistry.io/</a>

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	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:

#Unused maxPriceDeviationNormal and maxPriceDeviationEmergency

### Description

The state variables maxPriceDeviationNormal and maxPriceDeviationEmergency are declared, initialized, and can be set via setPriceGuardParameters, but they are never used in any of the contract's logic (e.g., checkPriceImpact or getExpectedPrice). Dead code, misleading variable names, and wasted storage slots.

### Recommendation

- If these variables are intended for future functionality, add a placeholder comment.
- If they are no longer needed, remove them to save gas (storage) and reduce complexity.
- If they *are* meant to be used, implement the logic that utilizes them (e.g., a checkPriceDeviation function).

Status: Acknowledged.

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

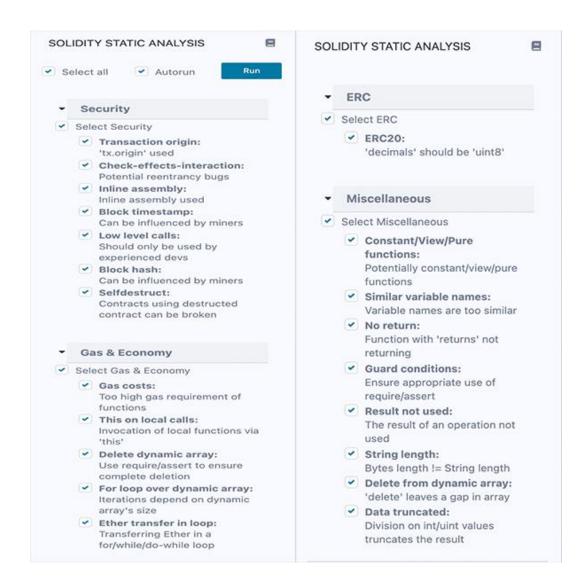
https://sepolia.etherscan.io/solcbuginfo

### Remediation

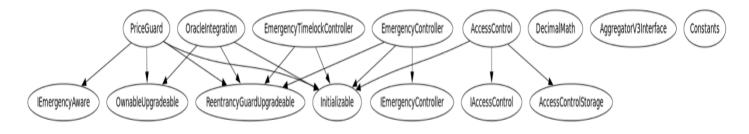
Remove the ^ sign to lock the pragma version.

# **Automatic Testing**

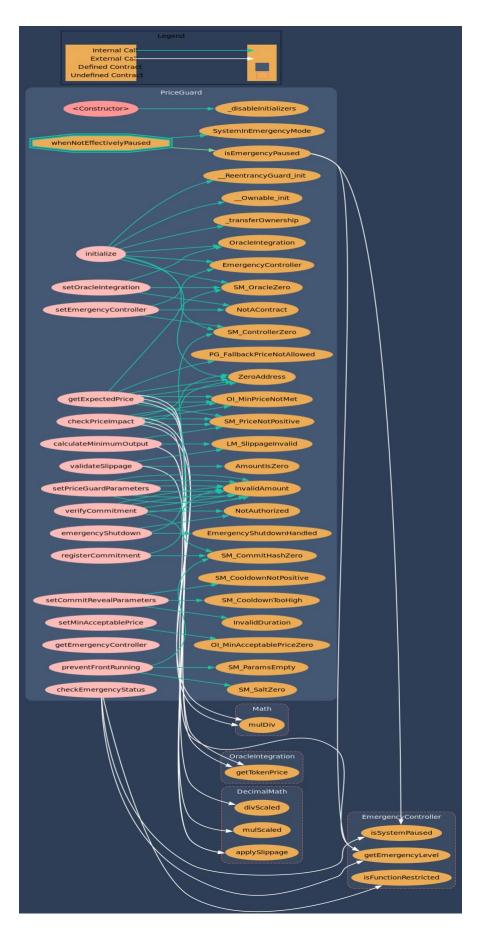
### 1- SOLIDITY STATIC ANALYSIS



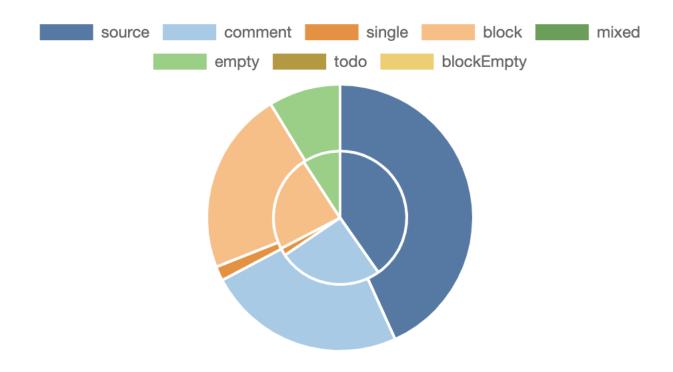
### 2- Inheritance graph



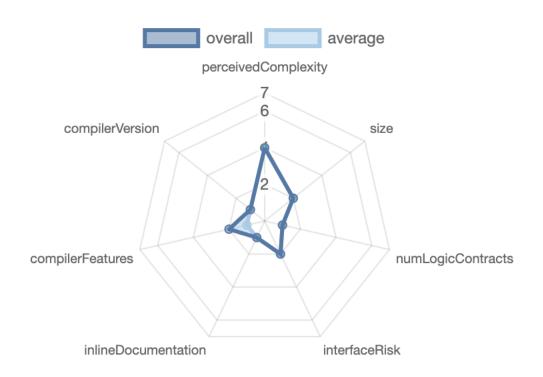
## 3- Call graph



# 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
<b>&gt;</b>	contracts/security/PriceGuard.sol	1		566	529	285	179	254	<b>=</b>
<b>&gt;</b>	Totals	1		566	529	285	179	254	

#### 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, ...)

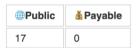
## Capabilities

#### 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	
16	11	0	2	5	

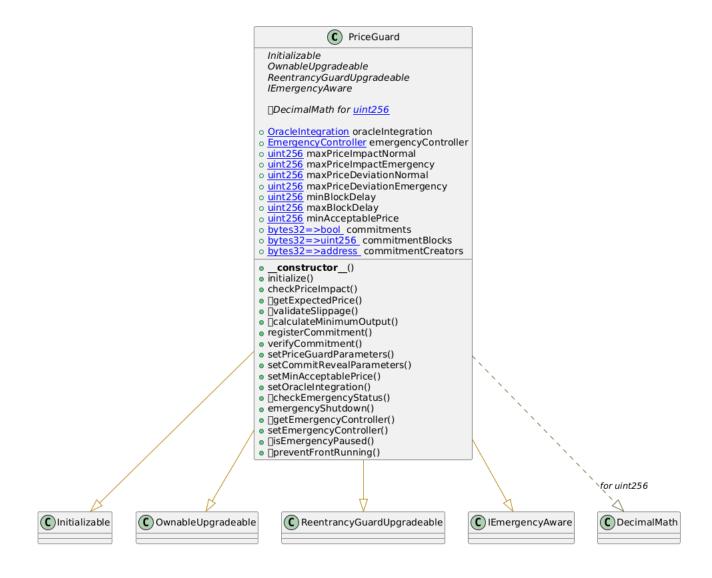
### **StateVariables**



### Capabilities



## Unified Modeling Language (UML)



## Functions signature

```
| Function Name | Sighash | Function Signature |
 | ----- | ------ |
 | initialize | c0c53b8b | initialize(address,address,address) |
 | checkPriceImpact | f1cacf24 |
checkPriceImpact(address,address,uint256,uint256) |
 | getExpectedPrice | 834a742f | getExpectedPrice(address,address) |
 | validateSlippage | 803c15df |
validateSlippage(uint256, uint256, uint256) |
 | calculateMinimumOutput | 113ed4f2 |
calculateMinimumOutput(uint256, uint256, uint256) |
 | registerCommitment | d9e314d8 | registerCommitment(bytes32) |
 | verifyCommitment | b82bc4c5 | verifyCommitment(uint8,bytes,bytes32) |
 | setPriceGuardParameters | 1274e810 |
setPriceGuardParameters(uint256, uint256, uint256, uint256) |
 | setCommitRevealParameters | 965e4749 |
setCommitRevealParameters(uint256, uint256) |
 | setMinAcceptablePrice | 28b9a503 | setMinAcceptablePrice(uint256) |
 | setOracleIntegration | a9361199 | setOracleIntegration(address) |
 | checkEmergencyStatus | 8aed668a | checkEmergencyStatus(bytes4) |
 | emergencyShutdown | eb1676c1 | emergencyShutdown(uint8) |
 | getEmergencyController | c993cc9d | getEmergencyController() |
 | setEmergencyController | 6ca7dc89 | setEmergencyController(address) |
 | isEmergencyPaused | 290d10c4 | isEmergencyPaused() |
| preventFrontRunning | d35c4ae1 |
preventFrontRunning(bytes32,uint8,bytes,bytes32) |
```

### Automatic general report

```
Files Description Table
| File Name | SHA-1 Hash |
|----|
| /Users/macbook/Desktop/drt-pREWA/contracts/security/PriceGuard.sol |
28b3b3389997bc046b915bbb7a579b615ca0597b
| /Users/macbook/Desktop/drt-pREWA/contracts/libraries/DecimalMath.sol |
1f5b0a2a73498dc5cb877c08aea3c971646fb4a5
| /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/Errors.sol |
0974f6f49e3b655fa93a2792154f1b506ec03c74 |
| /Users/macbook/Desktop/drt-pREWA/contracts/libraries/Constants.sol |
62835a8af9d7ab21c0cad9ca03abff6cf4e8e68f |
| /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/interfaces/IEmergencyController.sol |
40bc149ec8a1da85c0e4c6170b06f3a0f3b77f3b |
| /Users/macbook/Desktop/drt-
pREWA/contracts/controllers/EmergencyTimelockController.sol |
94735e88ad7f750ead488b7ad618b1486cbdb483
Contracts Description Table
 Contract |
                    Type | Bases |
|:----:|:----:|:----:|:----
   L | **Function Name** | **Visibility** | **Mutability**
  **Modifiers** |
```

```
| **PriceGuard** | Implementation | Initializable, OwnableUpgradeable,
ReentrancyGuardUpgradeable, IEmergencyAware | | |
| | initialize | External | | | | | | | initializer |
 whenNotEffectivelyPaused |
| L | getExpectedPrice | External | | | whenNotEffectivelyPaused | |
| L | validateSlippage | External | | | NO | |
| L | calculateMinimumOutput | External | | | NO | |
 registerCommitment | External | | nonReentrant
whenNotEffectivelyPaused |
whenNotEffectivelyPaused |
| L | setPriceGuardParameters | External | | OnlyOwner |
 L | setMinAcceptablePrice | External | | onlyOwner |
 L | setOracleIntegration | External | | onlyOwner | checkEmergencyStatus | External | NO| |
 L | emergencyShutdown | External | | NO | |
 | getEmergencyController | External | | | NO | |
 L | setEmergencyController | External | | OnlyOwner |
 | isEmergencyPaused | Public | NO |
 preventFrontRunning | External | | | NO |
| **DecimalMath** | Library | |||
L | divScaled | Internal A | | |
 L | mulDiv | Internal 🖰 | | |
 calculatePercentage | Internal A |
 L | applySlippage | Internal 🖺 | | |
 L | scaleUp | Internal A | | |
 - | weightedAverage | Internal 🖺 |
 L | compound | Internal 🖰 | | |
| **OracleIntegration** | Implementation | Initializable,
OwnableUpgradeable, ReentrancyGuardUpgradeable |||
| | initialize | External | | | | initializer |
 L | registerLPToken | External | | OnlyLiquidityManagerOrOwner
nonReentrant |
L | setStalenessThreshold | External | | OnlyOwner nonReentrant
 | getTokenPrice | Public | NO |
```

```
L | getLPTokenValue | External | | | NO
 | getLPTokenValueAlternative | External | |
 └ | validatePriceAgainstOracle | External 🗓 |
                                         INON
 L | _getPriceFromOracle | Private 🖺 | | |
 L | fetchAndReportPriceFromOracle | Private 🖺 | 🔘 | |
 └ | verifyPriceFeed | Private 🖺 | | |
 L | getPriceFeedDecimals | Private 🖺 | | |
 convertToStandardPrecision | Public | | NO |
 | getLPTokenInfo | External | | | NO | | |
 | getStalenessThreshold | External | | NO | |
 | getMinAcceptablePrice | External | | NO | |
| **AggregatorV3Interface** | Interface | |||
| decimals | External | NO |
| L | description | External | | NO | |
| L | version | External | | NO| |
| L | latestRoundData | External | | | NO | |
| L | getRoundData | External [ | NO[ |
| **Constants** | Library | |||
| **IEmergencyAware** | Interface | ||
| L | checkEmergencyStatus | External | | NO | |
| L | getEmergencyController | External | | | NO| |
| L | setEmergencyController | External | | | NO | |
| L | isEmergencyPaused | External | | NO | |
| **EmergencyController** | Implementation | Initializable,
ReentrancyGuardUpgradeable, IEmergencyController | | |
| Constructor> | Public | | NO | | | | |
| | | initialize | External | | | | initializer |
| L | setRequiredApprovals | External | | OnlyAdminRole |
| L | setLevel3TimelockDuration | External | | O | onlyAdminRole |
| L | setRecoveryAdminAddress | External | | OnlyAdminRole |
| L | approveLevel3Emergency | External | | OnlyEmergencyRole
nonReentrant |
nonReentrant |
| L | executeLevel3Emergency | External | | OnlyEmergencyRole
nonReentrant |
| L | setEmergencyLevel | External | | OnlyEmergencyRole
nonReentrant |
| L | enableEmergencyWithdrawal | External | | OnlyEmergencyRole
nonReentrant |
| L | pauseSystem | External [ [ OnlyPauserRole nonReentrant |
| L | unpauseSystem | External | | OnlyPauserRole nonReentrant |
```

```
| L | recoverTokens | External [ | OnlyEmergencyRole nonReentrant
| L | registerEmergencyAwareContract | External | | D |
onlyEmergencyRole |
| L | removeEmergencyAwareContract | External | | |
onlyEmergencyRole |
| L | processEmergencyForContract | External [ | 🔘 | nonReentrant |
 L | updateFunctionRestriction | External | | ● | onlyEmergencyRole |
 | getEmergencyLevel | External | | | NO | |
 | isSystemPaused | External | | NO | |
 | getEmergencyAwareContractsPaginated | External | | | NO| |
| L | getApprovalStatus | External | | NO | |
| L | isFunctionRestricted | External | | NO | |
 L | resetApprovals | Internal 🖺 | 🔘 | |
| **AccessControl** | Implementation | Initializable,
AccessControlStorage, IAccessControl | | |
| Constructor> | Public | | NO |
 └ | initialize | External 🖟 | 🔘 | initializer |
 | hasRole | External | | NO |
 L | grantRole | External | |
                            |NO∭ |
 └ | revokeRole | External | | ● | NO|
 renounceRole | External | | NO | |
 L | setRoleAdmin | External | NO | |
 | getRoleMember | External | | NO | |
 L | getRoleMemberCount | External | | | NO | |
 | getRoleMembersPaginated | External | | | NO | |
 💄 | grantRole | Internal 🦰 | 🌑 | |
 - revokeRole | Internal 🖰 | 🔘 | |
 L | setRoleAdmin | Internal 🖰 | 🔘 | |
 **AccessControlStorage** | Implementation | |||
**IAccessControl** | Interface | |||
 | hasRole | External | | NO | | |
 | grantRole | External | | | NO | |
 | revokeRole | External | | | NO | |
 renounceRole | External | | NO | |
 | getRoleMember | External | | NO | | |
 | getRoleMemberCount | External | | | NO | |
 | getRoleMembersPaginated | External | | NO | |
**IEmergencyController** | Interface | ||
 | setEmergencyLevel | External | | | NO| |
L | unpauseSystem | External | | NO | | recoverTokens | External | NO | |
```

```
| L | getEmergencyLevel | External | | NO | | |
| L | getEmergencyWithdrawalSettings | External | | | NO| |
| L | isSystemPaused | External | | NO | |
| L | getEmergencyAwareContractsPaginated | External | | NO | |
| **EmergencyTimelockController** | Implementation | Initializable,
ReentrancyGuardUpgradeable | | |
| L | initialize | External | | | initializer |
| L | setAllowedTarget | External | | OnlyEmergencyRole |
| L | setAllowedFunctionSelector | External | | OnlyEmergencyRole
nonReentrant |
| L | executeEmergencyAction | External | | OnlyEmergencyRole
nonReentrant |
nonReentrant |
| L | updateTimelockDuration | External | | OnlyEmergencyRole | |
| L | getActionStatus | External | | NO | |
| L | getAllActionIds | External | |
                              |NON |
| L | getActionDetails | External | | | NO| |
| L | isFunctionSelectorAllowed | External | |
| L | isTargetAllowed | External | | | NO | |
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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