# Smart Contract Security Audit V1

# **LP Staking Smart Contract Audit**

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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: LPStaking

• Language : Solidity

• **Contract Address**: 0x36fbb2f0fabf9faef2cc9ab182caa03e9f7252fa, 0xc7055816c1c70785667cee051bc7d207e6ffb633

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

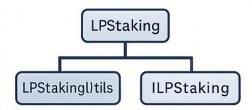
# LPStaking: Earn Rewards by **Staking LP Tokens**



### Overview

Stake LP tokens in customizable tiers to earn pREWA rewards, Sectre, upgradeable, and integrated with emergency controls.

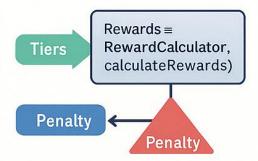
# **Core Components**



stakeLPTokens(address ip⁵oken, uint26 amouunt, uint25 tierid)

Stake LP tokens in a pool and tier to start earning rewards.

# **Staking Mechanics**



### **Events**

## **Main Functions**









Staking Unstakin Emergency Reward Withdrawal Claiming

# Safety & Governance







AccessControl Non-Reentrant

# **Usage Flow**



### **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, 2 low, 0 very low-level issues and 2 note in all solidity files of the contract

The files:

LPStaking.sol

### **Audit Score:**

99% secure



# File and Function Level Report

# File in Scope:

Contract Name	SHA 256 hash	Contract Address
ILFStaking.S01	b16b8c870fbab06a1ffdb a4c5564d2e1b0bf5271	0x36fbb2f0fabf9faef2cc9ab182caa03e9f7252fa , 0xc7055816c1c70785667cee051bc7d207e6ffb6 33

• Contract: LPStaking

Inherit: Initializable, LPStakingUtils, ILPStakingObservation: All passed including security check

Test Report: passedScore: passed

• Conclusion: passed

Function	Test Result	Type / Return Type	Score
accessControl	<b>√</b>	Read / public	Passed
calculateLPRewards	✓	Read / public	Passed
getLiquidityManagerAddres s	<b>√</b>	Read / public	Passed
checkEmergancyState	<b>√</b>	Read / public	Passed
emergencyController	<b>√</b>	Read / public	Passed
getEmergencyController	✓	Read / public	Passed
getLPPositionCount	✓	Read / public	Passed
getLPStakingPosition	✓	Read / public	Passed
getPoolInfo	✓	Read / public	Passed
getRewardTokenAddress	✓	Read / public	Passed
getTierInfo	✓	Read / public	Passed
isLPToken	✓	Read / public	Passed
isEmergencyPaused	✓	Read / public	Passed
pasued	✓	Read / public	Passed

claimLPRewards	✓	Write / public	Passed
renounceOwnership	✓	Write / public	Passed
transferOwnership	✓	Write / public	Passed
addTier	✓	Write / public	Passed
initialize	✓	Write / public	Passed
addPool	✓	Write / public	Passed
emergencyWithdrawLP	✓	Write / public	Passed
recoverTokens	✓	Write / public	Passed
setLPEmergencyWithdrawa	<b>√</b>	Write / public	Passed
setEmergencyController	✓	Write / public	Passed
emegrencyShutdown	✓	Write / public	Passed
stakeLPTokens	✓	Write / public	Passed
unstakeLPTokens	<b>√</b>	Write / public	Passed
updatePool	<b>√</b>	Write / public	Passed
updateTier	<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	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:

#Clarity in getPoolInfo Revert for Inactive Pools

#### Description

In getPoolInfo, the check if (pool.lpTokenAddress == address(0)) { revert LPS\_PoolNotActive(lpToken); } uses LPS\_PoolNotActive which is also used if !pool.active. This is slightly confusing as lpTokenAddress == address(0) implies the pool doesn't exist, not just that it's inactive

#### Recommendation

Create a new custom error, e.g., LPS\_PoolDoesNotExist (address lpToken), for cases where pool.lpTokenAddress == address(0). This clearly distinguishes between a non-existent pool and an existing but inactive one. (no need in large project)

Status: Acknowledged.

#Hardcoded 50000 in addPool and updatePool

#### Description

The magic number 50000 (for 500% APR) is hardcoded. It would be better practice to use a named constant from Constants.sol for clarity and easier modification.

#### Remediation

Define Constants.MAX\_APR\_BPS\_ALLOWED in Constants.sol and use that instead of the literal 50000.

P.S: This issue is common to the majority of those smart contracts.

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.

#### 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.

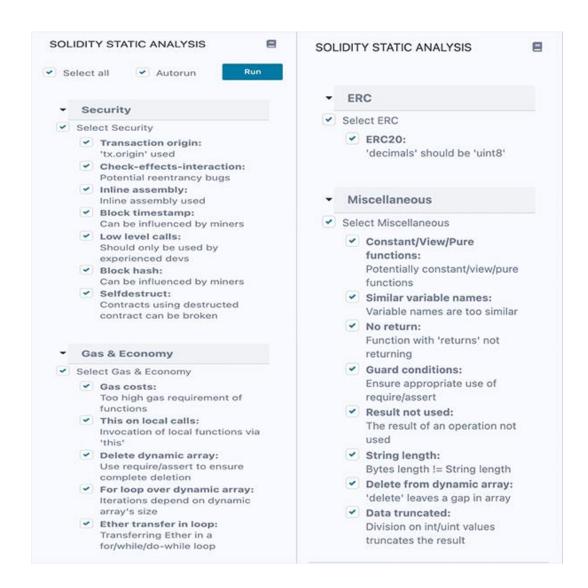
```
Tier storage tier = _tiers[tierId];
    if (!tier.active) revert LPS_TierNotActive(tierId);
    uint256 startTime = block.timestamp;
    uint256 endTime = startTime + tier.duration;
```

#### Recommendation

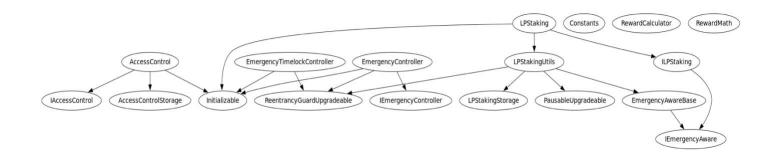
Avoid use of block.timestamp.

# **Automatic Testing**

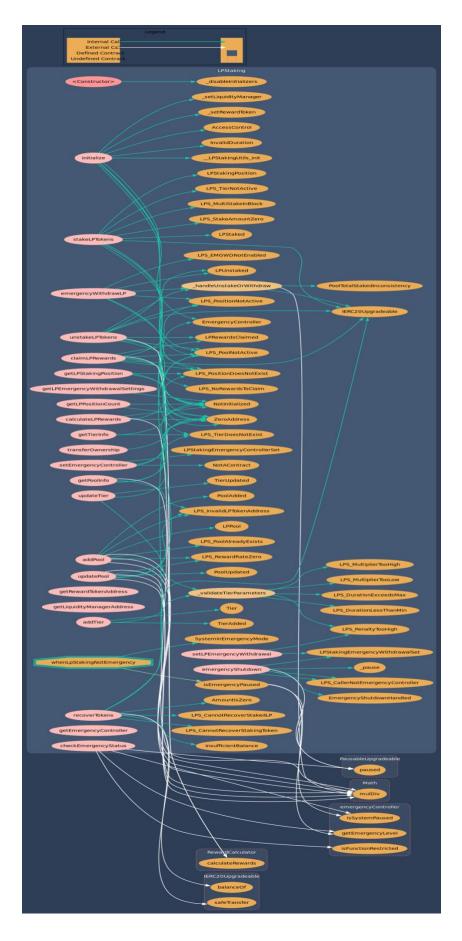
#### 1- SOLIDITY STATIC ANALYSIS



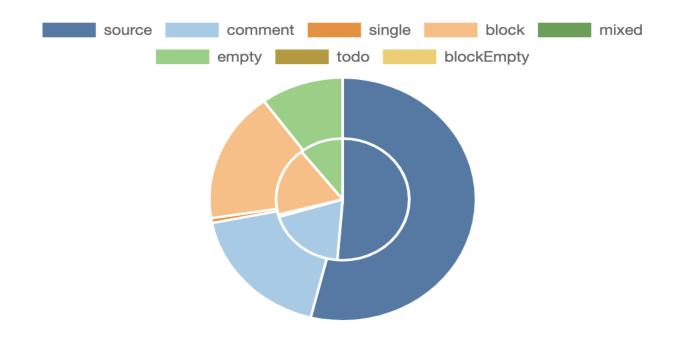
### 2- Inheritance graph



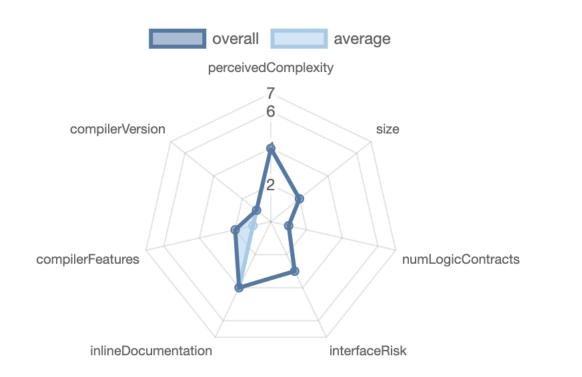
# 3- Call graph



### 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/liquidity/LPStaking.sol	1		668	625	396	147	352	■₹Σ
2	Totals	1		668	625	396	147	352	■≎Σ

#### 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
24	22	0	0	12

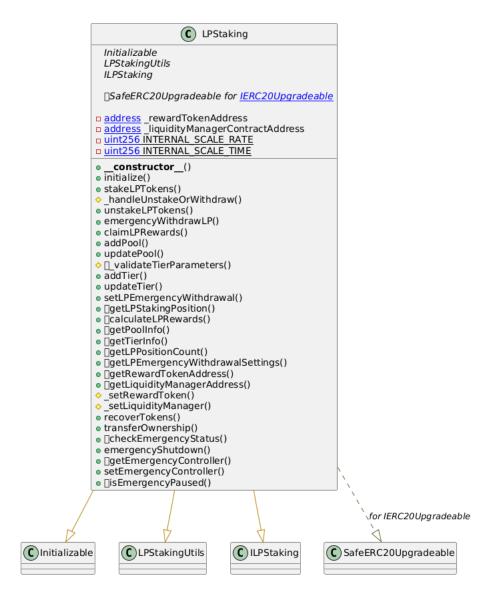
#### **StateVariables**



#### Capabilities



### Unified Modeling Language (UML)



### Functions signature

```
Function Name | Sighash | Function Signature |
| ----- | ------ |
| initialize | 32b5a1b3 |
initialize(address, address, address, uint256, address, address) |
| stakeLPTokens | 0d73eac5 | stakeLPTokens(address, uint256, uint256) |
| unstakeLPTokens | 76301350 | unstakeLPTokens(uint256) |
| emergencyWithdrawLP | 28a95ee4 | emergencyWithdrawLP(uint256) |
| claimLPRewards | 9e0ffc09 | claimLPRewards(uint256) |
| addPool | 32a9caba | addPool(address, uint256) |
| updatePool | 76d2847f | updatePool(address,uint256,bool) |
| addTier | 6358ec57 | addTier(uint256,uint256,uint256) |
| updateTier | 6edb9e3c |
updateTier(uint256, uint256, uint256, bool) |
| setLPEmergencyWithdrawal | c02152f1 |
setLPEmergencyWithdrawal(bool, uint256) |
| getLPStakingPosition | 79d77b42 |
getLPStakingPosition(address, uint256) |
| calculateLPRewards | babc177e | calculateLPRewards(address, uint256) |
| getPoolInfo | 06bfa938 | getPoolInfo(address) |
| getTierInfo | cc9d7519 | getTierInfo(uint256) |
| getLPPositionCount | 9bdc8cf5 | getLPPositionCount(address) |
| getLPEmergencyWithdrawalSettings | 4724f98f |
getLPEmergencyWithdrawalSettings() |
| getRewardTokenAddress | 99e117a0 | getRewardTokenAddress() |
| getLiquidityManagerAddress | 649f184a | getLiquidityManagerAddress() |
| recoverTokens | 069c9fae | recoverTokens(address, uint256) |
| transferOwnership | f2fde38b | transferOwnership(address) |
| checkEmergencyStatus | 8aed668a | checkEmergencyStatus(bytes4) |
| emergencyShutdown | eb1676c1 | emergencyShutdown(uint8) |
| getEmergencyController | c993cc9d | getEmergencyController() |
| setEmergencyController | 6ca7dc89 | setEmergencyController(address) |
| isEmergencyPaused | 290d10c4 | isEmergencyPaused() |
```

### Automatic general report

Contracts Description Table

```
Files Description Table
| File Name | SHA-1 Hash |
|----|
| /Users/macbook/Desktop/drt-pREWA/contracts/liquidity/LPStaking.sol |
b16b8c870fbab06a1ffdba4c5564d2e1b0bf5271 |
/Users/macbook/Desktop/drt-pREWA/contracts/liquidity/LPStakingUtils.sol
| 7a911bbd47adf0dea8a6f15682baca0315dd624d |
| /Users/macbook/Desktop/drt-
pREWA/contracts/liquidity/storage/LPStakingStorage.sol |
e47a8a8093d56ea9d91e40f0da0daa37e9eca488
| /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/controllers/EmergencyController.sol |
8e73765eaa98f95db8f5eb7a40cd13b0dc845266
| /Users/macbook/Desktop/drt-
pREWA/contracts/interfaces/IEmergencyAware.sol |
be6e0a371b0a5f62d5c7dc06e5c0c4121dcc7ca1
| /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/utils/EmergencyAwareBase.sol
528be04847c5d3cf03edd961c878359eb3cafc6a
| /Users/macbook/Desktop/drt-
pREWA/contracts/liquidity/RewardCalculator.sol |
1d401552a8f819cb277657b7fa2c5d86f5cd6928
| /Users/macbook/Desktop/drt-pREWA/contracts/libraries/RewardMath.sol |
364dab3e9f83972a6b43d70f4c87cbf95548b475 |
| /Users/macbook/Desktop/drt-
pREWA/contracts/liquidity/interfaces/ILPStaking.sol |
1d6ac7c073fd6eaf9ec371c2bdd3ce42cf4037c8
```

```
| Contract |
               Type | Bases |
              -----:|:----
|:----:|:----
   L | **Function Name** | **Visibility** | **Mutability**
**Modifiers** |
| **LPStaking** | Implementation | Initializable, LPStakingUtils,
ILPStaking | | |
| Constructor> | Public | | NO | |
| L | initialize | External | | O | initializer |
whenLpStakingNotEmergency |
| L | handleUnstakeOrWithdraw | Internal 🖺 | 🔘 | |
| L | unstakeLPTokens | External [ | D | nonReentrant |
whenLpStakingNotEmergency |
| L | addPool | External | | OnlyParameterRole nonReentrant |
 | L | setLPEmergencyWithdrawal | External | | OnlyOwner
nonReentrant |
 L | getLPStakingPosition | External | | | NO | |
 L | calculateLPRewards | External | | NO | |
 L | getPoolInfo | External | | | NO | |
 | getTierInfo | External | | NO | | |
 | getLPPositionCount | External | | NO |
 | getLPEmergencyWithdrawalSettings | External | | | NO | |
 | getRewardTokenAddress | External | | | NO | |
 | getLiquidityManagerAddress | External | | NO | |
 L | _setRewardToken | Internal 🖺 | 🔘 | _|
 L | setLiquidityManager | Internal 🖺 | 🔘 | |
 L | transferOwnership | External | | OnlyOwner nonReentrant |
L | checkEmergencyStatus | External | | NO | |
L | emergencyShutdown | External | | NO | |
 | isEmergencyPaused | Public | | NO | |
| **LPStakingUtils** | Implementation | LPStakingStorage,
PausableUpgradeable, ReentrancyGuardUpgradeable, EmergencyAwareBase | | |
| L | LPStakingUtils init | Internal 🖰 | 🔘 | onlyInitializing |
| **LPStakingStorage** | Implementation | |||
```

```
| **AccessControl** | Implementation | Initializable,
AccessControlStorage, IAccessControl | | |
| hasRole | External | | NO |
 L | grantRole | External | |
                          |NO|| |
 revokeRole | External | | NO | |
 L | renounceRole | External | | NO| |
 L | setRoleAdmin | External | NO | |
 L | getRoleMember | External | | NO | |
 L | getRoleMemberCount | External | | | | NO | |
 | | getRoleMembersPaginated | External | | | NO| |
 grantRole | Internal 🖺 | 🔘 | |
 | L | setRoleAdmin | Internal 🖺 | 🔘 | |
**AccessControlStorage** | Implementation | |||
**IAccessControl** | Interface | ||
| L | hasRole | External | | | NO | |
 L | getRoleAdmin | External | | | NO| |
| L | grantRole | External | |
                          |NO∭ |
| L | revokeRole | External | | ● | NO| |
| L | getRoleMember | External | | | NO | |
| L | getRoleMemberCount | External [ | NO[ |
| getRoleMembersPaginated | External | | | NO | |
| **EmergencyController** | Implementation | Initializable,
ReentrancyGuardUpgradeable, IEmergencyController | | |
| Constructor> | Public | | NO | | |
| L | initialize | External | | O | initializer |
| L | setRequiredApprovals | External | | D | onlyAdminRole |
| L | setRecoveryAdminAddress | External [ | OnlyAdminRole |
 L | approveLevel3Emergency | External | | OnlyEmergencyRole
nonReentrant |
nonReentrant |
| L | executeLevel3Emergency | External | | OnlyEmergencyRole
nonReentrant |
nonReentrant |
| L | enableEmergencyWithdrawal | External | | OnlyEmergencyRole
nonReentrant |
| L | pauseSystem | External [ [ OnlyPauserRole nonReentrant |
L | unpauseSystem | External | | onlyPauserRole nonReentrant | | l | recoverTokens | External | | onlyEmergencyRole nonReentrant
```

```
| L | registerEmergencyAwareContract | External | |
onlyEmergencyRole |
| L | removeEmergencyAwareContract | External | | |
onlyEmergencyRole |
| L | processEmergencyForContract | External | | O | nonReentrant |
 | getEmergencyLevel | External | | NO |
 L | getEmergencyWithdrawalSettings | External | | | NO | |
 | isSystemPaused | External | | NO | |
 L | getEmergencyAwareContractsPaginated | External | | | NO| |
 | isFunctionRestricted | External | | | NO | |
| L | resetApprovals | Internal A | O | |
**IEmergencyAware** | Interface | ||
 | getEmergencyController | External | | | NO | |
 L | setEmergencyController | External | | NO | |
 | isEmergencyPaused | External | | | NO | |
**IEmergencyController** | Interface | ||
 L | setEmergencyLevel | External | | NO | |
 L | enableEmergencyWithdrawal | External | | ● | NO| |
 pauseSystem | External | | NO | |
 L | unpauseSystem | External | | NO | |
L | recoverTokens | External | NO | |
 | getEmergencyLevel | External | | NO | |
 L | getEmergencyWithdrawalSettings | External | | | NO | |
 | isSystemPaused | External | | NO | |
 | getEmergencyAwareContractsPaginated | External | | | NO | |
| **EmergencyTimelockController** | Implementation | Initializable,
ReentrancyGuardUpgradeable |||
| L | initialize | External | | O | initializer |
 | | proposeEmergencyAction | External | | | | onlyEmergencyRole
nonReentrant |
| L | executeEmergencyAction | External | | OnlyEmergencyRole
| L | cancelEmergencyAction | External | | OnlyEmergencyRole
nonReentrant |
| L | updateTimelockDuration | External | | D
                                      | onlyEmergencyRole |
 | getActionStatus | External | | NO | |
 L | getAllActionIds | External | |
| L | getActionDetails | External | | NO | |
 | isFunctionSelectorAllowed | External | |
 | isTargetAllowed | External | | | NO | |
```

```
| **Constants** | Library | ||| |
| **EmergencyAwareBase** | Implementation | IEmergencyAware |||
| **RewardCalculator** | Library | |||
| L | calculateRewards | Public | | NO | |
| **RewardMath** | Library | |||
| L | calculateAPR | Internal A | | | |
| **ILPStaking** | Interface | IEmergencyAware | | |
 | initialize | External | | | NO | |
 L | stakeLPTokens | External | | NO | |
 | emergencyWithdrawLP | External | | | | | | | | | | | | |
 updatePool | External | | NO | |
 | addTier | External | | | | | | | | | | | |
 | updateTier | External | | | | NO | |
 calculateLPRewards | External | | NO |
 | getPoolInfo | External | | NO| |
 L | getTierInfo | External | | | NO | |
 L | getLPEmergencyWithdrawalSettings | 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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