

Security Audit Report for USDTLpListaDistributor

Date: Dec 18, 2024 **Version:** 1.0

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Report Manifest

Item	Description
Client	Lista
Target	USDTLpListaDistributor

Version History

Version	Date	Description
1.0	Dec 18, 2024	First release

Signature

About BlockSec BlockSec focuses on the security of the blockchain ecosystem and collaborates with leading DeFi projects to secure their products. BlockSec is founded by topnotch security researchers and experienced experts from both academia and industry. They have published multiple blockchain security papers in prestigious conferences, reported several zero-day attacks of DeFi applications, and successfully protected digital assets that are worth more than 14 million dollars by blocking multiple attacks. They can be reached at Email, Twitter and Medium.

Chapter 1 Introduction

1.1 About Target Contracts

Information	Description
Туре	Smart Contract
Language	Solidity
Approach	Semi-automatic and manual verification

The target of this audit is the code repository of USDTLpListaDistributor¹ of Lista. Specifically, only the changed part in this pull request ² is in the audit scope.

The auditing process is iterative. Specifically, we would audit the commits that fix the discovered issues. If there are new issues, we will continue this process. The commit SHA values during the audit are shown in the following table. Our audit report is responsible for the code in the initial version (Version 1), as well as new code (in the following versions) to fix issues in the audit report.

Project	Version	Commit Hash	
USDTLpListaDistributor	Version 1	fd80e186716de76ff22e4dcec89768e4ebecf	
OSDTEPLISTADISTIDUTO	Version 2	2fd2cfc261a65931a5400c8df978d24d646179a1	

1.2 Disclaimer

This audit report does not constitute investment advice or a personal recommendation. It does not consider, and should not be interpreted as considering or having any bearing on, the potential economics of a token, token sale or any other product, service or other asset. Any entity should not rely on this report in any way, including for the purpose of making any decisions to buy or sell any token, product, service or other asset.

This audit report is not an endorsement of any particular project or team, and the report does not guarantee the security of any particular project. This audit does not give any warranties on discovering all security issues of the smart contracts, i.e., the evaluation result does not guarantee the nonexistence of any further findings of security issues. As one audit cannot be considered comprehensive, we always recommend proceeding with independent audits and a public bug bounty program to ensure the security of smart contracts.

The scope of this audit is limited to the code mentioned in Section 1.1. Unless explicitly specified, the security of the language itself (e.g., the solidity language), the underlying compiling toolchain and the computing infrastructure are out of the scope.

https://github.com/lista-dao/lista-token

²https://github.com/lista-dao/lista-token/pull/65



1.3 Procedure of Auditing

We perform the audit according to the following procedure.

- **Vulnerability Detection** We first scan smart contracts with automatic code analyzers, and then manually verify (reject or confirm) the issues reported by them.
- Semantic Analysis We study the business logic of smart contracts and conduct further investigation on the possible vulnerabilities using an automatic fuzzing tool (developed by our research team). We also manually analyze possible attack scenarios with independent auditors to cross-check the result.
- Recommendation We provide some useful advice to developers from the perspective of good programming practice, including gas optimization, code style, and etc.
 We show the main concrete checkpoints in the following.

1.3.1 Software Security

- * Reentrancy
- * DoS
- * Access control
- * Data handling and data flow
- * Exception handling
- * Untrusted external call and control flow
- * Initialization consistency
- * Events operation
- * Error-prone randomness
- * Improper use of the proxy system

1.3.2 DeFi Security

- * Semantic consistency
- * Functionality consistency
- * Permission management
- * Business logic
- * Token operation
- * Emergency mechanism
- * Oracle security
- * Whitelist and blacklist
- * Economic impact
- * Batch transfer

1.3.3 NFT Security

- * Duplicated item
- * Verification of the token receiver
- * Off-chain metadata security



1.3.4 Additional Recommendation

- * Gas optimization
- * Code quality and style



Note The previous checkpoints are the main ones. We may use more checkpoints during the auditing process according to the functionality of the project.

1.4 Security Model

To evaluate the risk, we follow the standards or suggestions that are widely adopted by both industry and academy, including OWASP Risk Rating Methodology ³ and Common Weakness Enumeration ⁴. The overall *severity* of the risk is determined by *likelihood* and *impact*. Specifically, likelihood is used to estimate how likely a particular vulnerability can be uncovered and exploited by an attacker, while impact is used to measure the consequences of a successful exploit.

In this report, both likelihood and impact are categorized into two ratings, i.e., *high* and *low* respectively, and their combinations are shown in Table 1.1.

High High Medium

Low Medium Low

High Low

Likelihood

Table 1.1: Vulnerability Severity Classification

Accordingly, the severity measured in this report are classified into three categories: **High**, **Medium**, **Low**. For the sake of completeness, **Undetermined** is also used to cover circumstances when the risk cannot be well determined.

Furthermore, the status of a discovered item will fall into one of the following four categories:

- **Undetermined** No response yet.
- **Acknowledged** The item has been received by the client, but not confirmed yet.
- **Confirmed** The item has been recognized by the client, but not fixed yet.
- **Fixed** The item has been confirmed and fixed by the client.

³https://owasp.org/www-community/OWASP_Risk_Rating_Methodology

⁴https://cwe.mitre.org/

Chapter 2 Findings

In total, we find **three** potential issues. Besides, we also have **two** recommendations and **three** note.

High Risk: 1Medium Risk: 2Recommendation: 2

- Note: 3

ID	Severity	Description	Category	Status
1	High	Incorrect stake reward calculation due to use of updated balance	DeFi Security	Fixed
2	Medium	Potential lose rewards for users due to in- correct update during emergency mode switch	DeFi Security	Fixed
3	Medium	Potential drain of stake rewards due to in- correct update during emergency mode switch	DeFi Security	Fixed
4	-	Lack of check in function _setIsActive()	Recommendation	Fixed
5	-	Lack of reentrancy guard in the deposit() and withdraw() functions	Recommendation	Fixed
6	-	potential centralization risk	Note	-
7	-	Reward distribution mechanism and potential delay	Note	-
8	-	Expected reward distribution behavior during emergency mode	Note	-

The details are provided in the following sections.

2.1 DeFi Security

2.1.1 Incorrect stake reward calculation due to use of updated balance

Severity High

Status Fixed in Version 2

Introduced by Version 1

Description In the USDTLpListaDistributor contract, rewards are distributed based on the actual staked LP tokens and their duration. When a user makes a deposit, the contract first executes _deposit() function to update the user's balance, and then during the _stakeLp() function call, it triggers the function _updateStakeReward() to update the user's reward. However, in function _updateStakeReward(), the updated balance is used for calculating the stake reward, while the newly added LP tokens have not yet been staked in the farming pool to generate rewards. This causes the reward calculation to be inflated during the deposit process. Similarly, during withdrawal, the reward calculation will be underestimated for the same reason.



```
270 function _stakeLp(address _account, uint256 _amount) private {
271
      address distributor = address(this);
272
273
      _updateStakeReward(_account, balanceOf[_account]);
274
275
      uint256 beforeBalance = IERC20(cake).balanceOf(distributor);
276
      bool _noHarvest = noHarvest();
277
      if (!_noHarvest) {
        lastHarvestTime = block.timestamp;
278
279
280
      // Stake LP tokens to V2Wrapper
281
      IERC20(lpToken).safeIncreaseAllowance(address(v2wrapper), _amount);
282
      v2wrapper.deposit(_amount, _noHarvest);
283
284
      uint256 claimed = IERC20(cake).balanceOf(distributor) - beforeBalance;
285
286
      // Send CAKE rewards to StakingVault
287
      if (claimed > 0) {
        IERC20(cake).safeIncreaseAllowance(stakeVault, claimed);
288
289
        IStakingVault(stakeVault).sendRewards(distributor, claimed);
290
        emit Harvest(address(usdt), distributor, claimed);
291
      }
292 }
```

Listing 2.1: USDTLpListaDistributor.sol

```
295 function _unstakeLp(address _account, uint256 amount) private {
296
      _updateStakeReward(_account, balanceOf[_account]);
297
298
      address distributor = address(this);
299
300
      // withdraw lp token and claim rewards
301
      uint256 beforeBalance = IERC20(cake).balanceOf(distributor);
302
303
      bool _noHarvest = noHarvest();
304
      if (!_noHarvest) {
305
        lastHarvestTime = block.timestamp;
306
307
      v2wrapper.withdraw(amount, _noHarvest);
308
309
      uint256 claimed = IERC20(cake).balanceOf(distributor) - beforeBalance;
310
311
      // Send CAKE rewards to StakingVault
312
      if (claimed > 0) {
313
        IERC20(cake).safeIncreaseAllowance(stakeVault, claimed);
314
        IStakingVault(stakeVault).sendRewards(distributor, claimed);
315
        emit Harvest(address(usdt), distributor, claimed);
316
      }
317 }
```

Listing 2.2: USDTLpListaDistributor.sol

Impact This inconsistency can lead to inaccurate reward distribution.



Suggestion Revise the logic to pass the correct balance parameter when updating stake rewards.

2.1.2 Potential lose rewards for users due to incorrect update during emergency mode switch

Severity Medium

Status Fixed in Version 2

Introduced by Version 1

Description In the USDTLpListaDistributor contract, there is a security issue related to potential reward loss for users during emergency mode. When a user deposits funds via the deposit() function, the received LP tokens are staked to earn CAKE rewards. If the system enters emergency mode and the user later withdraws all staked LP tokens via the withdraw() function, the absence of a call to _unstakeLp() results in the user's stake rewards not being updated. Consequently, the user loses all rewards accrued between the last stake update and the withdrawal.

```
195 function withdraw(uint256 lpAmount, uint256 minLisUSDAmount, uint256 minUSDTAmount) external {
196
      require(lpAmount > 0, "Invalid LP amount");
197
198
      // 1. Validate lisUSD and USDT amount
199
      (uint256 expectLisUSDAmount, uint256 expectUSDTAmount) = getCoinsAmount(1pAmount);
200
      require(minLisUSDAmount <= expectLisUSDAmount, "Invalid lisUSD amount");</pre>
201
      require(minUSDTAmount <= expectUSDTAmount, "Invalid USDT amount");</pre>
202
203
      // 2. Update user's LP balance and LISTA reward, and distributor's LP total supply
204
      _withdraw(msg.sender, lpAmount);
205
206
      // 3. Unstake LP token from farming contract if not in emergency mode
207
      if (!emergencyMode) _unstakeLp(msg.sender, lpAmount);
208
209
      // 4. Remove liquidity from PancakeStableSwapTwoPool
      uint256 lisUSDAmountActual = lisUSD.balanceOf(address(this));
210
      uint256 usdtAmountActual = usdt.balanceOf(address(this));
211
212
213
      IStableSwap(stableSwapPool).remove_liquidity(lpAmount, [minLisUSDAmount, minUSDTAmount]);
214
215
      lisUSDAmountActual = lisUSD.balanceOf(address(this)) - lisUSDAmountActual;
216
      usdtAmountActual = usdt.balanceOf(address(this)) - usdtAmountActual;
217
      require(lisUSDAmountActual >= minLisUSDAmount, "Invalid lisUSD amount received");
218
      require(usdtAmountActual >= minUSDTAmount, "Invalid USDT amount received");
219
220
      // 5. Transfer lisUSD and USDT to user
221
      lisUSD.safeTransfer(msg.sender, lisUSDAmountActual);
222
      usdt.safeTransfer(msg.sender, usdtAmountActual);
223
224
      emit LpUnstaked(lpToken, usdtAmountActual, lisUSDAmountActual, lpAmount);
225 }
```

Listing 2.3: USDTLpListaDistributor.sol



```
295 function _unstakeLp(address _account, uint256 amount) private {
296
      _updateStakeReward(_account, balanceOf[_account]);
297
298
      address distributor = address(this);
299
300
      // withdraw lp token and claim rewards
301
      uint256 beforeBalance = IERC20(cake).balanceOf(distributor);
302
303
      bool _noHarvest = noHarvest();
304
      if (!_noHarvest) {
305
        lastHarvestTime = block.timestamp;
306
307
      v2wrapper.withdraw(amount, _noHarvest);
308
309
      uint256 claimed = IERC20(cake).balanceOf(distributor) - beforeBalance;
310
311
      // Send CAKE rewards to StakingVault
312
     if (claimed > 0) {
313
        IERC20(cake).safeIncreaseAllowance(stakeVault, claimed);
314
        IStakingVault(stakeVault).sendRewards(distributor, claimed);
        emit Harvest(address(usdt), distributor, claimed);
315
316
      }
317 }
```

Listing 2.4: USDTLpListaDistributor.sol

```
330 function _updateStakeReward(address _account, uint256 _balance) internal {
331
      // update reward
332
      uint256 updated = stakePeriodFinish;
333
      if (updated > block.timestamp) updated = block.timestamp;
334
      uint256 duration = updated - stakeLastUpdate;
335
      if (duration > 0) stakeLastUpdate = uint32(updated);
336
337
      if (duration > 0 && totalSupply > 0) {
338
        stakeRewardIntegral += (duration * stakeRewardRate * 1e18) / totalSupply;
339
      }
340
      if (_account != address(0)) {
341
        uint256 integralFor = stakeRewardIntegralFor[_account];
342
        if (stakeRewardIntegral > integralFor) {
343
          stakeStoredPendingReward[_account] += (_balance * (stakeRewardIntegral - integralFor)) / 1
              e18;
344
          stakeRewardIntegralFor[_account] = stakeRewardIntegral;
345
346
      }
347 }
```

Listing 2.5: USDTLpListaDistributor.sol

Impact During emergency mode, users may lose rewards accrued during the period between the last stake update and the withdrawal.

Suggestion Modify the withdraw() function logic to ensure that stake rewards are appropriately updated in emergency mode.



2.1.3 Potential drain of stake rewards due to incorrect update during emergency mode switch

Severity Medium

Status Fixed in Version 2

Introduced by Version 1

Description In the USDTLpListaDistributor contract, when users perform deposit operations during the emergency mode, the _stakeLp() function is not triggered. This results in the user's stake rewards not being updated promptly. In this case, when the system exits emergency mode, subsequent withdrawal operations will cause the _updateStakeReward() function to use the user's total current balance (including the amount deposited during emergency mode) to calculate rewards for the entire period, which is incorrect.

```
164 function deposit(uint256 usdtAmount, uint256 minLpAmount) external onlyActive {
      require(usdtAmount > 0, "Invalid usdt amount");
166
      uint256 expectLpAmount = getLpToMint(usdtAmount);
167
      require(expectLpAmount >= minLpAmount, "Invalid min lp amount");
168
169
      // 1. Transfer USDT to this contract
170
      usdt.safeIncreaseAllowance(stableSwapPool, usdtAmount);
      usdt.safeTransferFrom(msg.sender, address(this), usdtAmount);
171
172
173
      // 2. Add USDT to PancakeStableSwapTwoPool
174
      uint256 actualLpAmount = IERC20(lpToken).balanceOf(address(this));
175
      IStableSwap(stableSwapPool).add_liquidity([0, usdtAmount], minLpAmount);
176
      actualLpAmount = IERC20(lpToken).balanceOf(address(this)) - actualLpAmount;
177
178
      require(actualLpAmount >= minLpAmount, "Invalid lp amount minted");
179
180
      // 3. Update user's LP balance and LISTA reward, and distributor's LP total supply
181
      _deposit(msg.sender, actualLpAmount);
182
183
      // 4. Stake the received LP token to farming contract only if not in emergency mode
184
      if (!emergencyMode) _stakeLp(msg.sender, actualLpAmount);
185
186
      emit USDTStaked(lpToken, usdtAmount, actualLpAmount);
187 }
```

Listing 2.6: USDTLpListaDistributor.sol

```
195 function withdraw(uint256 lpAmount, uint256 minLisUSDAmount, uint256 minUSDTAmount) external {
196
      require(lpAmount > 0, "Invalid LP amount");
197
198
      // 1. Validate lisUSD and USDT amount
199
      (uint256 expectLisUSDAmount, uint256 expectUSDTAmount) = getCoinsAmount(lpAmount);
200
      require(minLisUSDAmount <= expectLisUSDAmount, "Invalid lisUSD amount");</pre>
201
      require(minUSDTAmount <= expectUSDTAmount, "Invalid USDT amount");</pre>
202
203
      // 2. Update user's LP balance and LISTA reward, and distributor's LP total supply
204
      _withdraw(msg.sender, lpAmount);
205
```



```
206
      // 3. Unstake LP token from farming contract if not in emergency mode
207
      if (!emergencyMode) _unstakeLp(msg.sender, lpAmount);
208
209
      // 4. Remove liquidity from PancakeStableSwapTwoPool
210
      uint256 lisUSDAmountActual = lisUSD.balanceOf(address(this));
211
      uint256 usdtAmountActual = usdt.balanceOf(address(this));
212
213
      IStableSwap(stableSwapPool).remove_liquidity(lpAmount, [minLisUSDAmount, minUSDTAmount]);
214
215
      lisUSDAmountActual = lisUSD.balanceOf(address(this)) - lisUSDAmountActual;
216
      usdtAmountActual = usdt.balanceOf(address(this)) - usdtAmountActual;
217
      require(lisUSDAmountActual >= minLisUSDAmount, "Invalid lisUSD amount received");
218
      require(usdtAmountActual >= minUSDTAmount, "Invalid USDT amount received");
219
220
      // 5. Transfer lisUSD and USDT to user
221
      lisUSD.safeTransfer(msg.sender, lisUSDAmountActual);
222
      usdt.safeTransfer(msg.sender, usdtAmountActual);
223
224
      emit LpUnstaked(lpToken, usdtAmountActual, lisUSDAmountActual, lpAmount);
225 }
```

Listing 2.7: USDTLpListaDistributor.sol

Impact This leads to funds deposited during emergency mode receiving rewards for periods prior to their deposit, resulting in over-allocation of rewards.

Suggestion Revise the logic to ensure correct rewards distribution.

2.2 Additional Recommendation

2.2.1 Lack of check in function _setIsActive()

```
Status Fixed in Version 2
Introduced by Version 1
```

Description The function setIsActive() allows the privileged MANAGER role to change the state of the global variable isActive. However, it does not check whether the updated state is different from the original state. If the state remains unchanged, the emitted event after the update becomes meaningless.

```
422 function setIsActive(bool _isActive) external onlyRole(MANAGER) {
423   isActive = _isActive;
424   emit SetIsActive(_isActive);
425 }
```

Listing 2.8: USDTLpListaDistributor.sol

Suggestion Add a check to ensure the updated state is different from the original state.

2.2.2 Lack of reentrancy guard in the deposit() and withdraw() functions

Status Fixed in Version 2



Introduced by Version 1

Description In the USDTLpListaDistributor contract, the deposit() and withdraw() functions lack reentrancy protection. Both functions interact multiple times with external contracts during execution, especially when adding or removing liquidity with the stableSwapPool. If the stableSwapPool contract is upgraded to malicious code, it could potentially reenter these functions during the calls to add_liquidity() or remove_liquidity(), leading to unintended modifications of the contract's state.

```
164 function deposit(uint256 usdtAmount, uint256 minLpAmount) external onlyActive {
165
      require(usdtAmount > 0, "Invalid usdt amount");
166
      uint256 expectLpAmount = getLpToMint(usdtAmount);
167
      require(expectLpAmount >= minLpAmount, "Invalid min lp amount");
168
169
      // 1. Transfer USDT to this contract
170
      usdt.safeIncreaseAllowance(stableSwapPool, usdtAmount);
171
      usdt.safeTransferFrom(msg.sender, address(this), usdtAmount);
172
173
      // 2. Add USDT to PancakeStableSwapTwoPool
174
      uint256 actualLpAmount = IERC20(lpToken).balanceOf(address(this));
175
      IStableSwap(stableSwapPool).add_liquidity([0, usdtAmount], minLpAmount);
176
      actualLpAmount = IERC20(lpToken).balanceOf(address(this)) - actualLpAmount;
177
178
      require(actualLpAmount >= minLpAmount, "Invalid lp amount minted");
179
180
      // 3. Update user's LP balance and LISTA reward, and distributor's LP total supply
181
      _deposit(msg.sender, actualLpAmount);
182
183
      // 4. Stake the received LP token to farming contract only if not in emergency mode
184
      if (!emergencyMode) _stakeLp(msg.sender, actualLpAmount);
185
186
      emit USDTStaked(lpToken, usdtAmount, actualLpAmount);
187 }
```

Listing 2.9: USDTLpListaDistributor.sol

```
195 function withdraw(uint256 lpAmount, uint256 minLisUSDAmount, uint256 minUSDTAmount) external {
196
      require(lpAmount > 0, "Invalid LP amount");
197
198
      // 1. Validate lisUSD and USDT amount
      (uint256 expectLisUSDAmount, uint256 expectUSDTAmount) = getCoinsAmount(lpAmount);
199
200
      require(minLisUSDAmount <= expectLisUSDAmount, "Invalid lisUSD amount");</pre>
201
      require(minUSDTAmount <= expectUSDTAmount, "Invalid USDT amount");</pre>
202
203
      // 2. Update user's LP balance and LISTA reward, and distributor's LP total supply
204
      _withdraw(msg.sender, lpAmount);
205
206
      // 3. Unstake LP token from farming contract if not in emergency mode
207
      if (!emergencyMode) _unstakeLp(msg.sender, lpAmount);
208
209
      // 4. Remove liquidity from PancakeStableSwapTwoPool
210
      uint256 lisUSDAmountActual = lisUSD.balanceOf(address(this));
211
      uint256 usdtAmountActual = usdt.balanceOf(address(this));
```



```
212
213
      IStableSwap(stableSwapPool).remove_liquidity(lpAmount, [minLisUSDAmount, minUSDTAmount]);
214
215
      lisUSDAmountActual = lisUSD.balanceOf(address(this)) - lisUSDAmountActual;
216
      usdtAmountActual = usdt.balanceOf(address(this)) - usdtAmountActual;
217
      require(lisUSDAmountActual >= minLisUSDAmount, "Invalid lisUSD amount received");
218
      require(usdtAmountActual >= minUSDTAmount, "Invalid USDT amount received");
219
220
      // 5. Transfer lisUSD and USDT to user
221
      lisUSD.safeTransfer(msg.sender, lisUSDAmountActual);
222
      usdt.safeTransfer(msg.sender, usdtAmountActual);
223
224
      emit LpUnstaked(lpToken, usdtAmountActual, lisUSDAmountActual, lpAmount);
225 }
```

Listing 2.10: RewardDistributor.sol

Suggestion Add the nonReentrant modifier to prevent reentrancy attack risks.

2.3 Note

2.3.1 Potential centralization risk

Description In the current implementation, several privileged roles are set to govern and regulate system-wide operations (e.g., parameter setting, pause/unpause, and granting roles). Additionally, the function emergencyWithdraw() allows the admin role to withdraw all LP tokens from the farming contract into the contract. The admin also has the ability to arbitrarily update the stakeVault address. If the private keys of these privileged roles are lost or maliciously exploited, it could potentially lead to significant losses for users.

Feedback from the Project The DEFAULT_ADMIN_ROLE will be a TimeLock contract with a minimum 1 day delay.

2.3.2 Reward distribution mechanism and potential delay

Description The USDTLpListaDistributor contract distributes staking rewards periodically. Specifically, to avoid precision loss that could result in rewards becoming zero due to overly frequent reward claims in the farming contract, the contract introduces a global variable called harvestTimeGap to limit the frequency of reward claims. However, if this variable is set too large, it could lead to a temporary delay in reward distribution. After a reward distribution period ends, the rewards may pause until the time gap has passed. Rewards will only resume after this time gap has passed, either when a user passively triggers it (via a deposit or withdrawal action) or when the harvest() function is actively invoked. During this period, users will not receive rewards, which is an inherent trade-off of the mechanism.

Feedback from the Project The Bot currently performs the harvest() function every 12 hours on mainnet. Upon launch, the frequency will be adjusted to every 2 hours.



2.3.3 Expected reward distribution behavior during emergency mode

Description According to the design of PancakeSwap Farming, CAKE is distributed based on the amount of LP tokens actually staked in the farming contract. However, when the emergency mode is activated, LP tokens are withdrawn from the farming contracts and held in the contract. During this period, users who deposit can still receive the corresponding staking rewards, even though their deposited LP tokens are not accumulating rewards in the farming contracts at that time.

Feedback from the Project This design is intentional and aims to incentivize users to provide USDT liquidity by distributing farming rewards.

