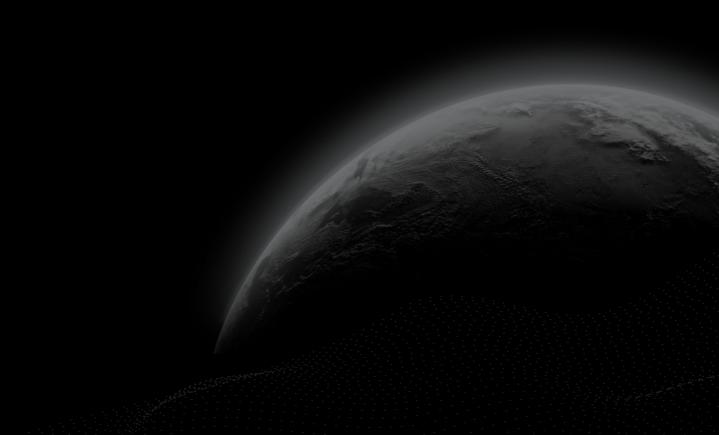


Security Assessment

Umbrella Network2023

CertiK Verified on Mar 22nd, 2023







CertiK Verified on Mar 22nd, 2023

Umbrella Network2023

The security assessment was prepared by CertiK, the leader in Web3.0 security.

Executive Summary

TYPES ECOSYSTEM METHODS

DeFi Ethereum Manual Review, Static Analysis

LANGUAGE TIMELINE KEY COMPONENTS

Solidity Delivered on 03/22/2023 N/A

CODEBASE

https://github.com/umbrella-network/overture-private

ETH Deployments:

0x2d9D79B3189377449aB2AA4bBD2cd2651e0b85BE

...View All

COMMITS

Base: <u>b726b660c537ec13766b6dc788db68e0b0b74211</u>
Update1: <u>73e0f876e814d0d03f44d53e49b2bb9f4d8d5a4e</u>
Update2: <u>d7ad20d5018bb914a8de71da08e8ff5327924dc5</u>

...View All

Vulnerability Summary

7 Total Findings	7 Resolved	O Mitigated	O Partially Resolved	O Acknowledged	O Declined	O Unresolved
■ 0 Critical				Critical risks are those a platform and must be should not invest in any risks.	addressed before	launch. Users
■ 0 Major				Major risks can include errors. Under specific c can lead to loss of fund	ircumstances, thes	e major risks
0 Medium				Medium risks may not but they can affect the		
3 Minor	3 Resolved		_	Minor risks can be any scale. They generally dintegrity of the project, other solutions.	o not compromise	the overall
4 Informational	4 Resolved			Informational errors are improve the style of the within industry best pra the overall functioning of	code or certain op	erations to fall



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CODEBASE UMBRELLA NETWORK2023

Repository

https://github.com/umbrella-network/overture-private

ETH Deployments:

<u>0x2d9D79B3189377449aB2AA4bBD2cd2651e0b85BE</u> <u>0xB67D91E38fbA6CfCb693d3f4598F8bd1e6e68AE3</u>

BSC Deployments:

<u>0x55881395d209397b0c00bCeBd88abC1386f7aBe7</u> <u>0x6Ff6B943D20B611E81a581c1E7951A6Dc0AC3455</u>

Commit

Base: b726b660c537ec13766b6dc788db68e0b0b74211
Update1: 73e0f876e814d0d03f44d53e49b2bb9f4d8d5a4e
Update2: d7ad20d5018bb914a8de71da08e8ff5327924dc5
Update3: b0a642b2faafaddae15fef944ddbae1388184bab
Update4: ca90201f099dc78b0925f0af16907a44c32e524c
Update5: 31879b3b767860d520ca32693d91720c53690875



AUDIT SCOPE UMBRELLA NETWORK2023

1 file audited • 1 file with Resolved findings

ID	Repo	Commit	File		SHA256 Checksum
• SRU	umbrella- network/overture-private	b726b66		contracts/staking/ StakingRewards.s	3cb83a267e01924cc87884ee8087b99b1db4 5f80571e7c88c2079dcfce1fe9ec



APPROACH & METHODS UMBRELLA NETWORK2023

This report has been prepared for Umbrella to discover issues and vulnerabilities in the source code of the Umbrella Network2023 project as well as any contract dependencies that were not part of an officially recognized library. A comprehensive examination has been performed, utilizing Manual Review and Static Analysis techniques.

The auditing process pays special attention to the following considerations:

- Testing the smart contracts against both common and uncommon attack vectors.
- Assessing the codebase to ensure compliance with current best practices and industry standards.
- Ensuring contract logic meets the specifications and intentions of the client.
- Cross referencing contract structure and implementation against similar smart contracts produced by industry leaders.
- Thorough line-by-line manual review of the entire codebase by industry experts.

The security assessment resulted in findings that ranged from critical to informational. We recommend addressing these findings to ensure a high level of security standards and industry practices. We suggest recommendations that could better serve the project from the security perspective:

- Testing the smart contracts against both common and uncommon attack vectors;
- Enhance general coding practices for better structures of source codes;
- Add enough unit tests to cover the possible use cases;
- Provide more comments per each function for readability, especially contracts that are verified in public;
- Provide more transparency on privileged activities once the protocol is live.

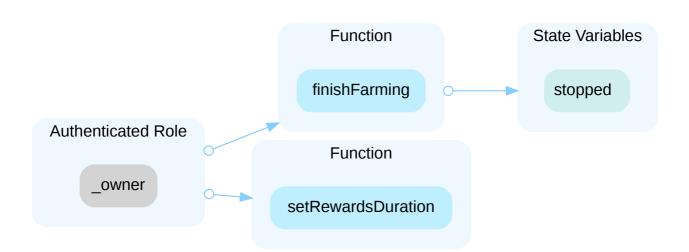


DECENTRALIZATION EFFORTS UMBRELLA NETWORK2023

Description

In the contract StakingRewards the role onlyowner has authority over the functions shown in the diagram below. Any compromise to the onlyowner account may allow the hacker to take advantage of this by:

- Calling finishFarming(), which will finalize a stopping point for staking.
 - Which will set the following functions that uses whenActive to fail:
 - o notifyRewardAmount()
 - o setRewardsDuration()
 - finishFarming()
- Calling setRewardsDuration() which will set the rewardsDuration to a new value which may increase or decrease rewards.



In the contract StakingRewards the role rewardsDistribution has authority over the functions shown in the diagram below. Any compromise to the rewardsDistribution account may allow the hacker to take advantage of this by:

• Allowing new rewardRate to enter for the remaining portion or for the new duration.





 The centralized entity is responsible for ensuring the reward token are always available for users to receive their staked rewards.

Recommendations

The risk describes the current project design and potentially makes iterations to improve in the security operation and level of decentralization, which in most cases cannot be resolved entirely at the present stage. We advise the client to carefully manage the privileged account's private key to avoid any potential risks of being hacked. In general, we strongly recommend centralized privileges or roles in the protocol be improved via a decentralized mechanism or smart-contract-based accounts with enhanced security practices, e.g., multisignature wallets. Indicatively, here are some feasible suggestions that would also mitigate the potential risk at a different level in terms of short-term, long-term and permanent:

Short Term:

Timelock and Multi sign (2/3, 3/5) combination *mitigate* by delaying the sensitive operation and avoiding a single point of key management failure.

- Time-lock with reasonable latency, e.g., 48 hours, for awareness on privileged operations;
 AND
- Assignment of privileged roles to multi-signature wallets to prevent a single point of failure due to the private key compromised;

AND

A medium/blog link for sharing the timelock contract and multi-signers addresses information with the public audience.

Long Term:

Timelock and DAO, the combination, *mitigate* by applying decentralization and transparency.

- Time-lock with reasonable latency, e.g., 48 hours, for awareness on privileged operations;
 AND
- Introduction of a DAO/governance/voting module to increase transparency and user involvement.
 AND
- · A medium/blog link for sharing the timelock contract, multi-signers addresses, and DAO information with the public audience.

Permanent:

Renouncing the ownership or removing the function can be considered *fully resolved*.

- Renounce the ownership and never claim back the privileged roles.
 OR
- · Remove the risky functionality.



Alleviation

Both the owner role and rewardsDistribution were set to the following multi-signs which both require 3 out of 4 signatures:

- ETH: <u>0xa800863644ce2F0e6c7Bb3226E40Fda8ec649881</u>
- BSC: 0x28e2fd9620ae1ce68dde1e246f352a3925c65433



FINDINGS UMBRELLA NETWORK2023



This report has been prepared to discover issues and vulnerabilities for Umbrella Network2023. Through this audit, we have uncovered 7 issues ranging from different severity levels. Utilizing the techniques of Manual Review & Static Analysis to complement rigorous manual code reviews, we discovered the following findings:

ID	Title	Category	Severity	Status
SRH-07	notifyRewardAmount() Will Leave Dust In Contract	Logical Issue	Minor	Resolved
SRU-02	Users Can Potentially Stake Past Closed	Logical Issue	Minor	Resolved
SRU-03	Possible Overflow/Underflow	Mathematical Operations	Minor	Resolved
SRU-04	Missing Zero Address Validation	Volatile Code	Informational	Resolved
SRU-05	Incompatibility With Deflationary Tokens	Logical Issue	Informational	Resolved
SRU-06	Out Of Scope Dependency	Volatile Code	Informational	Resolved
SRU-08	External View Functions Can Be Separated	Coding Style	Informational	Resolved



SRH-07 notifyRewardAmount() WILL LEAVE DUST IN CONTRACT

Category	Severity	Location	Status
Logical Issue	Minor	contracts/staking/StakingRewards.sol (Update1): 64	Resolved

Description

When <code>notifyRewardAmount()</code> is called the first time <code>timeData.periodFinish</code> will be set to the current <code>block.timestamp</code> + <code>t.rewardsDuration</code>. With the current value of <code>rewardsDuration</code> being 2592000 seconds, this should run for 30 days after being called. If <code>stake()</code> is not called in the same block as <code>notifyRewardAmount()</code> this will cause a small amount of tokens to stay inside the contract. When a user calls <code>stake()</code> for the first time, it will call the modifier <code>updateReward()</code>. This is an issue due to <code>timeData.lastUpdateTime</code> being equal to <code>lastTimeRewardApplicable</code> which does not take in the time before the first call of <code>stake()</code>.

Scenario

The contract has 5184000 tokens sent to cover all rewards.

- 1. Bob is the deployer and calls <code>notifyRewardAmount()</code> and the <code>rewardRate</code> will be 2. The total reward will be (2 * 2592000).
- 2. Alice decides to be the first user to stake. Alice stakes 1 hour after notifyRewardAmount() is called.
- 3. Because the gap in time between stake() and notifyRewardAmount(), this will cause (3600*2) tokens to be inside the contract and cannot be handed out.

Recommendation

We recommend factoring in this delay of time to ensure tokens are not locked into the contract.

Alleviation

[CertiK]: The client fixed the issues in the following commit: 31879b3b767860d520ca32693d91720c53690875.



SRU-02 USERS CAN POTENTIALLY STAKE PAST CLOSED

Category	Severity	Location	Status
Logical Issue	Minor	contracts/staking/StakingRewards.sol (Base): 226	Resolved

Description

The modifier whenActive is not attached to staking. After farming is finished, users can still enter and exit the staking pool.

Recommendation

We recommend adding whenActive to _stake(). If there are not scenarios where staking should be paused and farming is active, then notPaused() can be removed.

Alleviation

[Certik]: The team acknowledged the finding but stated this was by design. The modifier onlyActive is for the owner to protect against restarting an old contract.



SRU-03 POSSIBLE OVERFLOW/UNDERFLOW

Category	Severity	Location	Status
Mathematical Operations	Minor	contracts/staking/StakingRewards.sol (Base): <u>105~106</u>	Resolved

Description

Since StakingRewards is less than solidity ^0.8.0, overflow and underflows checking is not built in. This makes it possible for overflow/underflow to occur and lead to inaccurate calculations.

One example of a possible overflow is:

Deployer calls notifyRewardAmount() then immediately calls it again with a value greater than (2**256-1) (remaining * rewardRate) causing newRewardRate to overflow and potentially causing rewards to be lower than intended.

```
105 uint256 leftover = remaining * rewardRate;
106 newRewardRate = (_reward + leftover) / t.rewardsDuration;
```

Proof of Concept

The following test case written with Foundry will demonstrate that overflow is possible:

- 1. Deploy the contract and call notifyRewardAmount() with a _reward amount of 10,000,000.
- 2. Skip forward in time by 15555 seconds
- 3. Call notifyRewardAmount() again with the _reward amount of (2 ** 256) 1;
- 4. This will cause the sum of leftover and reward to overflow as it will exceed the maximum value of a uint256.

 This will cause the newRewardRate to be a lower rewardRate than expected.

Note that the check that <code>totalRewardsSupply <= maxEverTotalRewards</code> will be passed due to another overflow. This happens because the <code>totalRewardsSupply</code> is the sum <code>timeData.totalRewardsSupply + _reward</code> which will be <code>10_000_000 + ((2 ** 256) - 1)</code> that will overflow to <code>9_999_999</code>.



```
// SPDX-License-Identifier: UNLICENSED
pragma solidity ^0.7.5;
pragma abicoder v2;
import "forge-std/Test.sol";
import "../src/overture-private-develop/contracts/staking/StakingRewards.sol";
import "../src/overture-private-develop/contracts/UMB.sol";
import "../src/overture-private-develop/contracts/rUMB2.sol";
contract testOverflow is Test {
    rUMB2 testRUMB;
   UMB testUMB;
   StakingRewards StakingTest;
    address deployer = address(0xACDE);
    uint256 public MAX_UINT256 = 2 ** 256 - 1;
    function setUp() public {
        vm.startPrank(deployer);
        testUMB = new UMB(
            deployer,
            deployer,
            1000000000000,
            (1000000000000 * 10),
            "UMB",
            "UMB"
        testRUMB = new rUMB2(
            deployer,
            100000000000, //uint256 _maxAllowedTotalSupply,
            1000000,
            10000000,
            "rUMB1",
            "rUMB1",
            address(testUMB)
        StakingTest = new StakingRewards(
            deployer,
            deployer,
            address(testRUMB),
            address(testRUMB)
        vm.stopPrank();
```



Recommendation

We recommend using OpenZeppelin's SafeMath library for all relevant mathematical operations.

Reference: https://github.com/OpenZeppelin/openzeppelin-contracts/blob/master/contracts/utils/math/SafeMath.sol

Alleviation

[Certik]: The client fixed the issues in the following commit: ca90201f099dc78b0925f0af16907a44c32e524c.



SRU-04 MISSING ZERO ADDRESS VALIDATION

Category	Severity	Location	Status
Volatile Code	Informational	contracts/staking/StakingRewards.sol (Base): 79~81, 85~87	Resolved

Description

Addresses should be checked before assignment or external call to make sure they are not zero addresses.

```
stakingToken = IERC20(_stakingToken);
rewardsToken = IERC20(_rewardsToken);
rewardsDistribution = _rewardsDistribution;
```

_rewardsDistribution , _rewardsToken , and _stakingToken are not zero-checked before being used.

Recommendation

We recommend adding a zero-check for the passed-in address value to prevent unexpected errors.

Alleviation

[CertiK]: The client fixed the issues in the following commit: 73e0f876e814d0d03f44d53e49b2bb9f4d8d5a4e.



SRU-05 INCOMPATIBILITY WITH DEFLATIONARY TOKENS

Category	Severity	Location	Status
Logical Issue	Informational	contracts/staking/StakingRewards.sol (Base): <u>236~237</u> , <u>243</u> , <u>25</u> <u>9</u> , <u>261</u> , <u>264</u>	Resolved

Description

When transferring deflationary ERC20 tokens, the input amount may not be equal to the received amount due to the charged transaction fee. For example, if a user sends 100 deflationary tokens (with a 10% transaction fee) via stake(), only 90 tokens actually arrived to the contract. However, a failure to discount such fees may allow the same user to call withdraw() or exit() some or all of their tokens from the contract, which causes the contract to lose incorrectly manage the amount of tokens in a users balance. This is a problem as not all token holders will not be able to withdraw their asset due to not storing the correct value. In turn, this allows some users to withdraw more than they should and leave other users with nothing.

Recommendation

We recommend regulating the set of tokens supported and add necessary mitigation mechanisms to keep track of accurate balances if there is a need to support deflationary tokens.

Alleviation

[certik]: The client stated the following token will be used for the protocol and it is not deflationary:

ETH: <u>0x6fC13EACE26590B80cCCAB1ba5d51890577D83B2</u>.

BSC: 0x846F52020749715F02AEf25b5d1d65e48945649D.



SRU-06 OUT OF SCOPE DEPENDENCY

Category	Severity	Location	Status
Volatile Code	Informational	contracts/staking/StakingRewards.sol (Base): 79~81, 85~87	Resolved

Description

The contract serves as the underlying entity to interact with multiple external contracts such as <code>_rewardsDistribution</code>, <code>__stakingToken</code>, and <code>__rewardsToken</code>. The scope of the audit treats out of scope contracts as black boxes, assumes their functional correctness, and the audited contracts interact with those contracts in a correct way. However, in the real world, those contracts might contain logic issues or security vulnerabilities, and this may lead to lost or stolen assets.

Recommendation

We understand that the business logic requires interaction with <code>_rewardsDistribution</code>, <code>_stakingToken</code>, and <code>_rewardsToken</code>. We encourage the team to ensure the correctness and security of out-of-scope contracts to prevent unexpected errors from happening.

Alleviation

[Umbrella Network]: UMB will be used as reward and staking tokens:

- ETH: <u>0x6fC13EACE26590B80cCCAB1ba5d51890577D83B2</u>.
- BSC: 0x846F52020749715F02AEf25b5d1d65e48945649D.

We will also use these for staking tokens:

- ETH: <u>0xB1BbeEa2dA2905E6B0A30203aEf55c399C53D042</u> (Uniswap v2 LP token).
- BSC: 0xFfD8eEFb9F0Ba3C60282fd3E6567A2C78C994266 (PancakeSwap LP token).

Distributor: Umbrella Gnosis multisig

- ETH: <u>0xa800863644ce2F0e6c7Bb3226E40Fda8ec649881</u>.
- BSC: 0x28E2Fd9620AE1ce68Dde1e246F352A3925C65433.

UMB token contract was audited. You can find the audit report here:

https://drive.google.com/file/d/1hvfhXMhGxAH ztvtmJXucwlrzHocrviC/view?usp=sharing. It also has been battle-tested as it



is being used on Mainnet for over 2 years. The LP token contracts have both been battle-tested.



SRU-08 EXTERNAL VIEW FUNCTIONS CAN BE SEPARATED

Category	Severity	Location	Status
Coding Style	Informational	contracts/staking/StakingRewards.sol (Base): 167~193	Resolved

Description

The contract StakingRewards has the following sections for restrictive and mutative functions. However, the view functions should be put into the view category to follow the same standard and be consistent.

Recommendation

We recommend changing this to stay consistent with the rest of the contract.

Alleviation

[CertiK]: The client fixed the issues in the following commit: d7ad20d5018bb914a8de71da08e8ff5327924dc5.



OPTIMIZATIONS UMBRELLA NETWORK2023

ID	Title	Category	Severity	Status
SRU-09	Unnecessary Initilization	Gas Optimization	Optimization	Resolved



SRU-09 UNNECESSARY INITILIZATION

Category	Severity	Location	Status
Gas Optimization	Optimization	contracts/staking/StakingRewards.sol (Base): <u>34</u>	Resolved

Description

The variable $\begin{tabular}{ll} rewardRate \\ \hline \end{tabular}$ will be initialized to $\begin{tabular}{ll} 0 \\ \hline \end{tabular}$ by default.

Recommendation

We recommend not initializing this variable directly to save gas.

Alleviation

[Certik]: The client fixed the issues in the following commit: b0a642b2faafaddae15fef944ddbae1388184bab.



APPENDIX UMBRELLA NETWORK2023

I Finding Categories

Categories	Description
Gas Optimization	Gas Optimization findings do not affect the functionality of the code but generate different, more optimal EVM opcodes resulting in a reduction on the total gas cost of a transaction.
Mathematical Operations	Mathematical Operation findings relate to mishandling of math formulas, such as overflows, incorrect operations etc.
Logical Issue	Logical Issue findings detail a fault in the logic of the linked code, such as an incorrect notion on how block.timestamp works.
Volatile Code	Volatile Code findings refer to segments of code that behave unexpectedly on certain edge cases that may result in a vulnerability.
Coding Style	Coding Style findings usually do not affect the generated byte-code but rather comment on how to make the codebase more legible and, as a result, easily maintainable.

I Checksum Calculation Method

The "Checksum" field in the "Audit Scope" section is calculated as the SHA-256 (Secure Hash Algorithm 2 with digest size of 256 bits) digest of the content of each file hosted in the listed source repository under the specified commit.

The result is hexadecimal encoded and is the same as the output of the Linux "sha256sum" command against the target file.



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