



# Worldland - audit

## Security Assessment

CertiK Assessed on Feb 12th, 2026





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The security assessment was prepared by CertiK.

### Executive Summary

#### TYPES

ERC-20

#### ECOSYSTEM

EVM Compatible

#### METHODS

Manual Review, Static Analysis

#### LANGUAGE

Solidity

#### TIMELINE

Preliminary comments published on 02/10/2026

Final report published on 02/12/2026

### Vulnerability Summary



8

Total Findings

2

Resolved

0

Partially Resolved

6

Acknowledged

0

Declined

#### 2 Centralization

2 Acknowledged

Centralization findings highlight privileged roles & functions and their capabilities, or instances where the project takes custody of users' assets.

#### 0 Critical

Critical risks are those that impact the safe functioning of a platform and must be addressed before launch. Users should not invest in any project with outstanding critical risks.

#### 0 Major

Major risks may include logical errors that, under specific circumstances, could result in fund losses or loss of project control.

#### 0 Medium

Medium risks may not pose a direct risk to users' funds, but they can affect the overall functioning of a platform.

#### 2 Minor

2 Resolved

Minor risks can be any of the above, but on a smaller scale. They generally do not compromise the overall integrity of the project, but they may be less efficient than other solutions.

#### 4 Informational

4 Acknowledged

Informational errors are often recommendations to improve the style of the code or certain operations to fall within industry best practices. They usually do not affect the overall functioning of the code.

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## **Disclaimer**

## APPROACH & METHODS | WORLDLAND - AUDIT

This audit was conducted for Worldland to evaluate the security and correctness of the smart contracts associated with the Worldland - audit project. The assessment included a comprehensive review of the in-scope smart contracts. The audit was performed using a combination of Manual Review and Static Analysis.

The review process emphasized the following areas:

- Architecture review and threat modeling to understand systemic risks and identify design-level flaws.
- Identification of vulnerabilities through both common and edge-case attack vectors.
- Manual verification of contract logic to ensure alignment with intended design and business requirements.
- Dynamic testing to validate runtime behavior and assess execution risks.
- Assessment of code quality and maintainability, including adherence to current best practices and industry standards.

The audit resulted in findings categorized across multiple severity levels, from informational to critical. To enhance the project's security and long-term robustness, we recommend addressing the identified issues and considering the following general improvements:

- Improve code readability and maintainability by adopting a clean architectural pattern and modular design.
- Strengthen testing coverage, including unit and integration tests for key functionalities and edge cases.
- Maintain meaningful inline comments and documentations.
- Implement clear and transparent documentation for privileged roles and sensitive protocol operations.
- Regularly review and simulate contract behavior against newly emerging attack vectors.

# REVIEW NOTES | WORLDLAND - AUDIT

## Overview

**Worldland** is a project that includes its token and TGE contracts. The scope of this audit is as follows:

- MyToken.sol
- RevocableStairVesting.sol
- VestingWallet.sol
- VestingWalletCliff.sol
- VestingWalletStair.sol
- WorldLandStairVesting.sol

## External Dependencies

The following addresses interact at some point with specified contracts, making them an external dependency. All of the following values are initialized either at deployment time or by specific functions in smart contracts.

### WorldLandNativeToken

- `foundation_wallet`

### RevocableStairVesting

- `_revoker`
- `_treasury`

### VestingWalletStair

- `owner`

### VestingWallet

- `owner`

### VestingWalletCliff

- `owner`

### WorldLandStairVesting

- `owner`

We assume these contracts or addresses are valid and non-vulnerable actors and implementing proper logic to collaborate with the current project.

Also, the following library/contract are considered as the third-party dependencies:

- @openzeppelin/contracts/
- vesting\_contracts/access
- vesting\_contracts/interfaces
- vesting\_contracts/token
- vesting\_contracts/utls

## Privileged Functions

In the **Worldland** project, privileged roles are adopted to ensure the dynamic runtime updates of the project, which are specified in the **Centralization Risks** findings below.

The advantage of those privileged roles in the codebase is that the client reserves the ability to adjust the protocol according to the runtime requirements to best serve the community. It is also worth noting the potential drawbacks of these functions, which should be clearly stated through the client's action/plan. Additionally, if the private keys of the privileged accounts are compromised, it could lead to devastating consequences for the project.

To improve the trustworthiness of the project, dynamic runtime updates in the project should be notified to the community. Any plan to invoke the aforementioned functions should be also considered to move to the execution queue of a `TimeLock` contract.

# FINDINGS | WORLDLAND - AUDIT



8  
Total Findings

0  
Critical

2  
Centralization

0  
Major

0  
Medium

2  
Minor

4  
Informational

This report has been prepared for Worldland to identify potential vulnerabilities and security issues within the reviewed codebase. During the course of the audit, a total of 8 issues were identified. Leveraging a combination of Manual Review & Static Analysis the following findings were uncovered:

ID	Title	Category	Severity	Status
WOA-02	Initial Token Distribution	Centralization	Centralization	● Acknowledged
WOA-03	Centralization Related Risks	Centralization	Centralization	● Acknowledged
WOA-04	Missing Zero Address Validation	Volatile Code	Minor	● Resolved
WOA-05	Step-Duration Validation Is Inconsistent With "First Step Unlocks Immediately"	Logical Issue	Minor	● Resolved
WOA-01	Discussion On Adding Tokens After Revocation In <code>RevocableStairVesting</code>	Logical Issue	Informational	● Acknowledged
WOA-06	Constructor Does Not Chain-Call The Inherited Contract Constructor	Logical Issue	Informational	● Acknowledged
WOA-07	<code>VestingWalletCliff</code> Releases All Tokens Accumulated Linearly During The Cliff Period At The Cliff	Logical Issue	Informational	● Acknowledged
WOA-08	Revocation Timestamp Can Be Set Without Revoking Funds	Coding Style	Informational	● Acknowledged

## WOA-02 | Initial Token Distribution

Category	Severity	Location	Status
Centralization	● Centralization	token_contracts/contracts/MyToken.sol (init-a3bdc a): 11~12	● Acknowledged

### Description

All of the `WorldLandNativeToken` tokens are sent to the externally-owned account (EOA) address. This is a centralization risk because the owner(s) of the EOA can distribute tokens without obtaining the consensus of the community. Any compromise to these addresses may allow a hacker to steal and sell tokens on the market, resulting in severe damage to the project.

### Recommendation

It is recommended that the team be transparent regarding the initial token distribution process. The token distribution plan should be published in a public location that the community can access. The team should make efforts to restrict access to the private keys of the deployer account or EOAs. A multi-signature (2/3, 3/5) wallet can be used to prevent a single point of failure due to a private key compromise. Additionally, the team can lock up a portion of tokens, release them with a vesting schedule for long-term success, and deanonymize the project team with a third-party KYC provider to create greater accountability.

### Alleviation

[Worldland, 02/12/2026]: The team acknowledged this issue and stated that they will address the issue in the future, which will not be included in this audit engagement.

[Certik, 02/12/2026]: It is suggested to implement the aforementioned methods to avoid centralized failure. Also, Certik strongly encourages the project team to periodically revisit the private key security management of all addresses related to centralized roles.



## WOA-03 | Centralization Related Risks

Category	Severity	Location	Status
Centralization	● Centralization	vesting_contracts/finance/RevocableStairVesting.sol (init-a3bdca): 22, 106, 129; vesting_contracts/finance/VestingWallet.sol (init-a3bdca): 36; vesting_contracts/finance/VestingWalletCliff.sol (init-a3bdca): 14; vesting_contracts/finance/VestingWalletStair.sol (init-a3bdca): 20; vesting_contracts/finance/WorldLandStairVesting.sol (init-a3bdca): 23	● Acknowledged

### Description

In the contract `RevocableStairVesting`, the role `revoker` has authority over the following functions:

- `revoke()`
- `revoke(address token)`

If a `revoker` account is compromised, an attacker could repeatedly revoke all unvested ETH/ERC20 balances and drain them into the treasury.

The `RevocableStairVesting`, `WorldLandStairVesting`, `VestingWalletStair`, `VestingWalletCliff` and `VestingWallet` contract inherit from `Ownable`. As a result, the contract owner also has authority over the following functions:

- `transferOwnership()`
- `renounceOwnership()`

If an `owner` account is compromised, an attacker could reassign or abandon ownership.

### Recommendation

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.

### I Alleviation

**[Worldland, 02/12/2026]:** The team acknowledged this issue and stated that they will address the issue in the future, which will not be included in this audit engagement.

**[CertiK, 02/12/2026]:** It is suggested to implement the aforementioned methods to avoid centralized failure. Also, CertiK strongly encourages the project team to periodically revisit the private key security management of all addresses related to centralized roles.

## WOA-04 | Missing Zero Address Validation

Category	Severity	Location	Status
Volatile Code	● Minor	vesting_contracts/finance/RevocableStairVesting.sol (init-a3bdca): 71, 72	● Resolved

### Description

The cited address input is missing a check that it is not `address(0)`.

### Recommendation

We recommend adding a check the passed-in address is not `address(0)` to prevent unexpected errors.

### Alleviation

[Worldland, 02/12/2026]: The team heeded the advice and resolved the issue by adding zero address check in commit [e2274f94ce9bda80ce3068d25e5c11c9495243dc](#)

## WOA-05 | Step-Duration Validation Is Inconsistent With “First Step Unlocks Immediately”

Category	Severity	Location	Status
Logical Issue	Minor	vesting_contracts/finance/VestingWalletStair.sol (init-a3bdca): 66~68, 121~123	Resolved

### Description

In `VestingWalletStair`, according to the logic of `_vestingSchedule`, since the first tranche of tokens is vested immediately when the cliff ends, token vesting actually occurs at the very beginning of the `_stepDuration`.

`VestingWalletStair.sol`

```
121         // Calculate how many complete steps have passed since cliff
122         // Add 1 so the first step vests immediately when cliff ends
123         uint64 stepsCompleted = (timeSinceCliff / _stepDuration) + 1;
```

Therefore, at the start of the last `_stepDuration`—that is, at the end of the previous `_stepDuration`—vesting has already been completed. As a result, in the example of a 1-year cliff plus 4 quarterly steps, vesting should already be completed at the end of the 3rd quarterly step.

However, the constructor check fully counts all vesting periods, meaning it assumes that vesting for a 1-year cliff plus 4 quarterly steps is completed only at the end of the 4th quarterly step. This leads to an inconsistency between the check and the intended design.

`VestingWalletStair.sol`

```
66         if (cliffSeconds + (stepDuration * numberOfSteps) > durationSec) {
67             revert InvalidStepConfiguration(stepDuration, numberOfSteps,
68                 durationSec);
69         }
```

### Recommendation

It is recommended to modify the check to:

```
if (cliffSeconds + (stepDuration * (numberOfSteps - 1)) > durationSec) {
    revert InvalidStepConfiguration(stepDuration, numberOfSteps,
        durationSec);
}
```

## I Alleviation

[Worldland, 02/12/2026]: The team heeded the advice and resolved the issue by modifying the check in commit [e2274f94ce9bda80ce3068d25e5c11c9495243dc](#)

## WOA-01 | Discussion On Adding Tokens After Revocation In RevocableStairVesting

Category	Severity	Location	Status
Logical Issue	● Informational	vesting_contracts/finance/RevocableStairVesting.sol (init-a3 bdca): 22	● Acknowledged

### Description

After tokens are revoked, if new tokens are injected into the contract for any reason, these tokens will not be fully releasable. They will be releasable to the beneficiary only in proportion to the percentage of the total vesting period that had elapsed at the time of the first revocation, and the remaining portion would need to be withdrawn by calling `revoke()` again. We would like to confirm with the team whether this behavior is intended by design.

### Recommendation

It is recommended to consider allowing all tokens held by the contract to become fully reclaimable once `revoke()` has been executed.

### Alleviation

[Worldland, 02/12/2026]: The RevocableStairVestingContract, after being revoked, is not intended to be used at all.

Although it would be a better design to make it possible to reclaim all of the tokens after revoke is called.

Since we are short on time I won't make nay changes for the current version.

## WOA-06 | Constructor Does Not Chain-Call The Inherited Contract Constructor

Category	Severity	Location	Status
Logical Issue	● Informational	vesting_contracts/finance/VestingWalletCliff.sol (init-a3bdca): 26~31; vesting_contracts/finance/VestingWalletStair.sol (init-a3bdca): 50~73	● Acknowledged

### Description

The constructor does not chain-call the constructor of the inherited `VestingWallet` contract. As a result, `duration()` and `start()` in `VestingWalletCliff` and `VestingWalletStair` remain set to 0. If either of these contracts is inherited without calling the `VestingWallet` constructor, `duration()` and `start()` will be incorrectly initialized.

### Recommendation

If necessary, the `VestingWallet` constructor should be invoked in `VestingWalletStair` and `VestingWalletCliff`, and the constructors of `WorldLandStairVesting` and `RevocableStairVesting` should be updated accordingly to accommodate this change.

### Alleviation

[Worldland, 02/11/2026]: The team acknowledged the issue and decided not to implement the recommended change in the current engagement.

## WOA-07 | `VestingWalletCliff` Releases All Tokens Accumulated Linearly During The Cliff Period At The Cliff

Category	Severity	Location	Status
Logical Issue	● Informational	vesting_contracts/finance/VestingWalletCliff.sol (init-a3bdc a): 52	● Acknowledged

### Description

`VestingWalletCliff` does not release any tokens before the cliff. However, once the cliff is reached, it directly releases all tokens that were linearly accumulated during the cliff period, rather than starting linear release from zero.

### Recommendation

We would like to remind the team to be aware of this behavior when using this contract.

### Alleviation

[Worldland, 02/11/2026]: The team acknowledged the issue and decided not to implement the recommended change in the current engagement.



## WOA-08 | Revocation Timestamp Can Be Set Without Revoking Funds

Category	Severity	Location	Status
Coding Style	● Informational	vesting_contracts/finance/RevocableStairVesting.sol (init-a3 bdca): 108–110	● Acknowledged

### Description

The `revoke()` functions are meant to take back any unvested ETH or tokens and send them to the treasury, while leaving already vested amounts to the beneficiary.

However, the revocation timestamp is set even when no funds are actually revoked, which freezes the vesting time without moving any assets.

### Recommendation

Only update the revocation timestamp when `returnable > 0`, or explicitly handle the zero-amount case to avoid freezing the vesting schedule.

### Alleviation

[Worldland, 02/11/2026]: The team acknowledged the issue and decided not to implement the recommended change in the current engagement.

## APPENDIX | WORLDLAND - AUDIT

### Audit Scope

cryptoecc/WorldLand\_Contracts

- token\_contracts/contracts/MyToken.sol
- vesting\_contracts/finance/RevocableStairVesting.sol
- vesting\_contracts/finance/VestingWallet.sol
- vesting\_contracts/finance/VestingWalletCliff.sol
- vesting\_contracts/finance/VestingWalletStair.sol
- vesting\_contracts/finance/WorldLandStairVesting.sol
- token\_contracts/contracts/MyToken.sol
- vesting\_contracts/finance/RevocableStairVesting.sol
- vesting\_contracts/finance/VestingWallet.sol
- vesting\_contracts/finance/VestingWalletCliff.sol
- vesting\_contracts/finance/VestingWalletStair.sol
- vesting\_contracts/finance/WorldLandStairVesting.sol

### Finding Categories

Categories	Description
Coding Style	Coding Style findings may not affect code behavior, but indicate areas where coding practices can be improved to make the code more understandable and maintainable.
Volatile Code	Volatile Code findings refer to segments of code that behave unexpectedly on certain edge cases and may result in vulnerabilities.
Logical Issue	Logical Issue findings indicate general implementation issues related to the program logic.

Categories	Description
Centralization	Centralization findings detail the design choices of designating privileged roles or other centralized controls over the code.

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