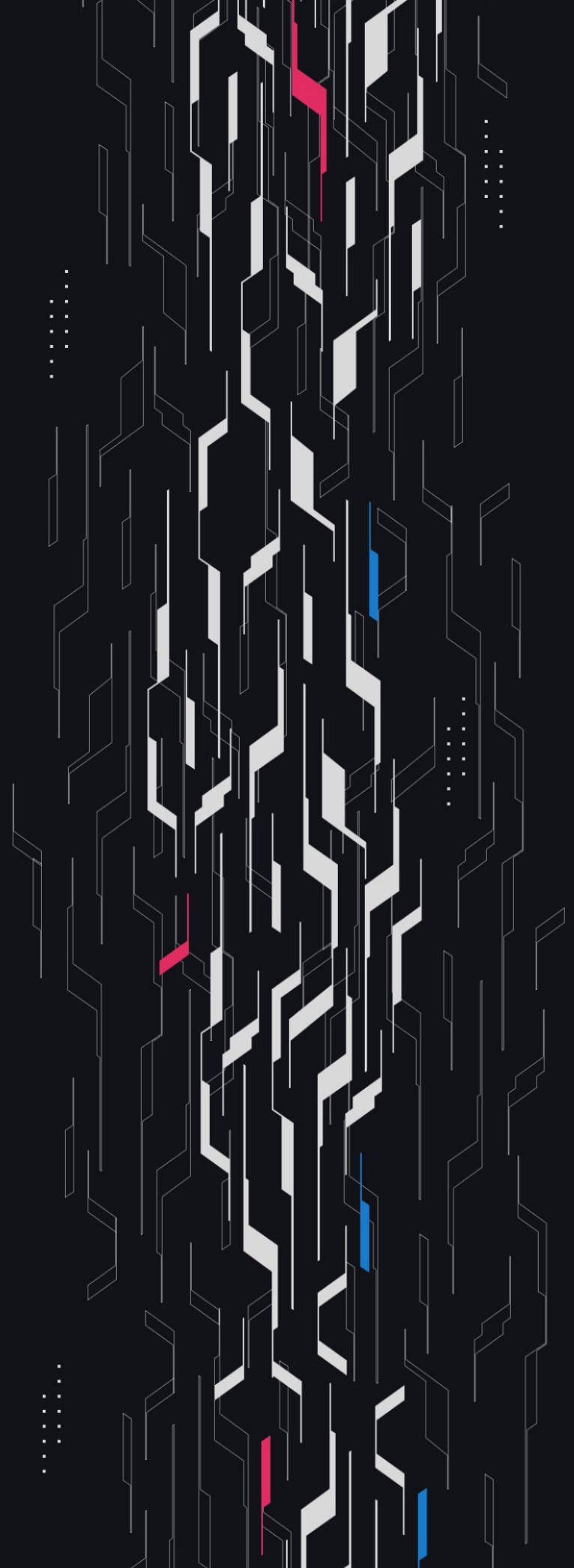# GA GUARDIAN

USDT0

Sei Deployment

Security Assessment

July 16th, 2025

Summary

Audit Firm Guardian

Prepared By Owen Thurm, Daniel Gelfand

Client Firm USDT0

Final Report Date July 16, 2025

Audit Summary

USDT0 engaged Guardian to review the security of their USDT0's deployment on Sei. From the 26th of March to the 27th of March, a team of 2 auditors reviewed the source code in scope. All findings have been recorded in the following report.

Confidence Ranking

Given the lack of critical issues detected and minimal code changes following the main review, Guardian assigns a Confidence Ranking of 5 to the protocol. Guardian advises the protocol to consider periodic review with future changes. For detailed understanding of the Guardian Confidence Ranking, please see the rubric on the following page.

🔗 Blockchain network: **Sei**

✅ Verify the authenticity of this report on Guardian's GitHub: https://github.com/guardianaudits

Guardian Confidence Ranking

Confidence Ranking	Definition and Recommendation	Risk Profile
5: Very High Confidence	Codebase is mature, clean, and secure. No High or Critical vulnerabilities were found. Follows modern best practices with high test coverage and thoughtful design. **Recommendation:** Code is highly secure at time of audit. Low risk of latent critical issues.	0 High/Critical findings and few Low/Medium severity findings.
4: High Confidence	Code is clean, well-structured, and adheres to best practices. Only Low or Medium-severity issues were discovered. Design patterns are sound, and test coverage is reasonable. Small changes, such as modifying rounding logic, may introduce new vulnerabilities and should be carefully reviewed. **Recommendation:** Suitable for deployment after remediations; consider periodic review with changes.	0 High/Critical findings. Varied Low/Medium severity findings.
3: Moderate Confidence	Medium-severity and occasional High-severity issues found. Code is functional, but there are concerning areas (e.g., weak modularity, risky patterns). No critical design flaws, though some patterns could lead to issues in edge cases. **Recommendation:** Address issues thoroughly and consider a targeted follow-up audit depending on code changes.	1 High finding and ≥ 3 Medium. Varied Low severity findings.
2: Low Confidence	Code shows frequent emergence of Critical/High vulnerabilities (~2/week). Audit revealed recurring anti-patterns, weak test coverage, or unclear logic. These characteristics suggest a high likelihood of latent issues. **Recommendation:** Post-audit development and a second audit cycle are strongly advised.	2-4 High/Critical findings per engagement week.
1: Very Low Confidence	Code has systemic issues. Multiple High/Critical findings (≥5/week), poor security posture, and design flaws that introduce compounding risks. Safety cannot be assured. **Recommendation:** Halt deployment and seek a comprehensive re-audit after substantial refactoring.	≥5 High/Critical findings and overall systemic flaws.

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Project Overview

Project Summary

Project Name	USDT0
Language	Solidity
Codebase	https://github.com/Everdawn-Labs/usdt0-tether-contracts-hardhat and https://github.com/Everdawn-Labs/usdt0-oft-contracts
Commits	Initial commits: 42e79d3984f59757af92087c1a625c33876986eb and a477eaf5504e55503e3d234b729c170950cf16e8
Addresses	OFT Proxy: 0x56Fe74A2e3b484b921c447357203431a3485CC60 OFT Implementation: 0x0D6D408B88cb2498E27Fd1d0a2132c337946b577 OFT Proxy Admin: 0xa882c21c9df00958a958cde96f2b2ae8fb4315b1 USDT0 Proxy: 0x9151434b16b9763660705744891fa906f660ecc5 USDT0 Implementation: 0xaf37e8b6c9ed7f6318979f56fc287d76c30847ff USDT0 Proxy Admin: 0xcb768e263fb1c62214e7cab4aa8d036d76dc59cc

Audit Summary

Delivery Date	July 16, 2025
Audit Methodology	Static Analysis, Manual Review, Test Suite, Contract Fuzzing

Vulnerability Summary

Vulnerability Level	Total	Pending	Declined	Acknowledged	Partially Resolved	Resolved
● Critical	0	0	0	0	0	0
● High	0	0	0	0	0	0
● Medium	0	0	0	0	0	0
● Low	0	0	0	0	0	0
● Info	5	0	0	2	0	3

Audit Scope & Methodology

Vulnerability Classifications

Severity	Impact: *High*	Impact: *Medium*	Impact: *Low*
Likelihood: *High*	● Critical	● High	● Medium
Likelihood: *Medium*	● High	● Medium	● Low
Likelihood: *Low*	● Medium	● Low	● Low

Impact

High Significant loss of assets in the protocol, significant harm to a group of users, or a core functionality of the protocol is disrupted.

Medium A small amount of funds can be lost or ancillary functionality of the protocol is affected. The user or protocol may experience reduced or delayed receipt of intended funds.

Low Can lead to any unexpected behavior with some of the protocol's functionalities that is notable but does not meet the criteria for a higher severity.

Likelihood

High The attack is possible with reasonable assumptions that mimic on-chain conditions, and the cost of the attack is relatively low compared to the amount gained or the disruption to the protocol.

Medium An attack vector that is only possible in uncommon cases or requires a large amount of capital to exercise relative to the amount gained or the disruption to the protocol.

Low Unlikely to ever occur in production.

Audit Scope & Methodology

Methodology

Guardian is the ultimate standard for Smart Contract security. An engagement with Guardian entails the following:

- Two competing teams of Guardian security researchers performing an independent review.
- A dedicated fuzzing engineer to construct a comprehensive stateful fuzzing suite for the project.
- An engagement lead security researcher coordinating the 2 teams, performing their own analysis, relaying findings to the client, and orchestrating the testing/verification efforts.

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. Comprehensive written tests as a part of a code coverage testing suite.
- Contract fuzzing for increased attack resilience.

Findings & Resolutions

ID	Title	Category	Severity	Status
I-01	Delegate As EOA	Configuration	● Info	Resolved
I-02	oftContract Unassigned	Configuration	● Info	Resolved
I-03	Different Sei Owners	Warning	● Info	Resolved
I-04	Delegate Set Twice	Configuration	● Info	Acknowledged
I-05	setPeer Called At DIfferent Times	Documentation	● Info	Acknowledged

I-01 | Delegate As EOA

Category	Severity	Location	Status
Configuration	● Info	Global	Resolved

Description

The delegate for the OFT contract is assigned as an EOA address rather than the Safe address on Sei.

Recommendation

Assign the delegate as the Safe address on Sei.

Resolution

USDT0 Team: Resolved.

I-02 | oftContract Unassigned

Category	Severity	Location	Status
Configuration	● Info	OFTExtension.sol	Resolved

Description

The deployment of the OFTExtension USDT0 contract on Sei does not have an assigned oftContract value.

Recommendation

Assign the appropriate oftContract value for the OFTExtension contract.

Resolution

USDT0 Team: Resolved.

I-03 | Different Sei Owners

Category	Severity	Location	Status
Warning	● Info	Global	Resolved

Description

The Safe owners on Sei do not completely match the Safe owners on ETH. In particular, ETH Safe Owner eth:0x00F6D2b4B69Ce697f913Da16A9D73283dc4C78F2 is not on the Sei Safe.

Furthermore, sei:0x1a6362AD64ccFF5902D46D875B36e8798267d154 is not a signer on the ETH safe.

Recommendation

Be aware of this and adjust signers as necessary.

Resolution

USDT0 Team: Resolved.

I-04 | Delegate Set Twice

Category	Severity	Location	Status
Configuration	● Info	Global	Acknowledged

Description

The delegate is set to address 0x4dff9b5b0143e642a3f63a5bcf2d1c328e600bf8 in transaction #6 of the Safe queue.

However, the delegate is attempted to be set to the same address in the last transaction (#34) unnecessarily.

Recommendation

Remove transaction #34 from the queue so the delegate is not set again.

Resolution

USDT0 Team: Acknowledged.

I-05 | setPeer Called At DIfferent Times

Category	Severity	Location	Status
Documentation	● Info	Global	Acknowledged

Description

Cross-chain peers may be set at different times, such that chain A recognizes chain B as a trusted peer, but chain B has not yet set chain A as a peer.

Users may send tokens from chain A to chain B, which will burn them, but the tokens will not be received on the destination chain until the peer relationship is fully configured.

Consequently, the user may temporarily lose access to their funds.

Recommendation

Clearly document this behavior to users.

Resolution

USDT0 Team: Acknowledged.

Disclaimer

This report is not, nor should be considered, an "endorsement" or "disapproval" of any particular project or team. This report is not, nor should be considered, an indication of the economics or value of any "product" or "asset" created by any team or project that contracts Guardian to perform a security assessment. This report does not provide any warranty or guarantee regarding the absolute bug-free nature of the technology analyzed, nor do they provide any indication of the technologies proprietors, business, business model or legal compliance.

This report should not be used in any way to make decisions around investment or involvement with any particular project. This report in no way provides investment advice, nor should be leveraged as investment advice of any sort. This report represents an extensive assessing process intending to help our customers increase the quality of their code while reducing the high level of risk presented by cryptographic tokens and blockchain technology.

Blockchain technology and cryptographic assets present a high level of ongoing risk. Guardian's position is that each company and individual are responsible for their own due diligence and continuous security. Guardian's goal is to help reduce the attack vectors and the high level of variance associated with utilizing new and consistently changing technologies, and in no way claims any guarantee of security or functionality of the technology we agree to analyze.

The assessment services provided by Guardian is subject to dependencies and under continuing development. You agree that your access and/or use, including but not limited to any services, reports, and materials, will be at your sole risk on an as-is, where-is, and as-available basis. Cryptographic tokens are emergent technologies and carry with them high levels of technical risk and uncertainty. The assessment reports could include false positives, false negatives, and other unpredictable results. The services may access, and depend upon, multiple layers of third-parties.

Notice that smart contracts deployed on the blockchain are not resistant from internal/external exploit. Notice that active smart contract owner privileges constitute an elevated impact to any smart contract's safety and security. Therefore, Guardian does not guarantee the explicit security of the audited smart contract, regardless of the verdict.

About Guardian

Founded in 2022 by DeFi experts, Guardian is a leading audit firm in the DeFi smart contract space. With every audit report, Guardian upholds best-in-class security while achieving our mission to relentlessly secure DeFi.

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