



XBTCR Security Audit

Verified smart contract security by leading blockchain security experts

Independent Security Audit

XBTCR smart contracts have undergone rigorous security auditing by industry-leading blockchain security firms to ensure the highest level of protection for our users.

Audit Summary

95%

Code Coverage

0

Critical Issues

2

Medium Issues

5

Low Issues

Audit Conducted By: CertiK Security

Audit Date: October 15, 2024

Contract Version: XBTCR v2.1.0

Conclusion: The XBTCR smart contracts were found to be well-structured and secure, with no critical vulnerabilities identified. All medium and low severity findings have been addressed in subsequent updates.

Detailed Findings

Issues by Severity

Critical	0 No critical severity issues found
High	0 No high severity issues found
Medium	2 Medium severity issues found and resolved
Low	5 Low severity issues found and resolved
Informational	3 Code optimization suggestions

Notable Findings

Reentrancy Protection in Transfer Functions

Medium

The audit identified that while the contract uses the standard reentrancy guard pattern, additional protection could be added to transfer functions to prevent potential edge cases.

Resolution: Implemented additional checks and added a mutex lock to all transfer- related functions.

Event Emission for Critical Functions

Medium

Some administrative functions did not emit events, making it harder to track these actions on the blockchain.

Resolution: Added event emissions for all administrative functions including fee updates and wallet changes.

Precision Loss in Reward Calculations

Low

Potential for minimal precision loss in reward distribution calculations due to division before multiplication in some cases.

Resolution: Reordered operations to perform multiplication before division where applicable.

Gas Optimization Opportunities

Informational

Several opportunities were identified to reduce gas costs through storage variable optimization and function restructuring.

Resolution: Implemented suggested optimizations, reducing average transaction gas costs by ~12%.