

Ting Audit
January, 2025



TINGAUDIT

SMART CONTRACTS SECURITY
AUDIT REPORT



t.me/tingaudit



x.com/TingAudit



github.com/TingAudit

Audit Details



Audited Project

TonCapy



Deployer Address

0x3175f563CD53Fe9cD0B6BB2EE442c428D6E95CD8



Client Contacts

TonCapy Team



Blockchain

BSC



Project Website

<https://toncapy.com>

Disclaimer

This is a limited report on our findings based on our analysis, in accordance with good industry practice as at the date of this report, in relation to cybersecurity vulnerabilities and issues in the framework and algorithms based on smart contracts, the details of which are set out in this report. In order to get a full view of our analysis, it is crucial for you to read the full report. While we have done our best in conducting our analysis and producing this report, it is important to note that you should not rely on this report and cannot claim against us on the basis of what it says or doesn't say, or how we produced it, and it is important for you to conduct your own independent investigations before making any decisions. We go into more detail on this in the disclaimer below – please make sure to read it in full.

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The analysis of the security is purely based on the smart contracts alone. No applications or operations were reviewed for security. No product code has been reviewed.

Background

Ting Audit was commissioned by TonCapy to perform an audit of smart contracts:

<https://bscscan.com/token/0x045c2767a6cae0a4551f40e4e8d250af94fe056b>

The primary objectives of the audit were to:

- Ensure that the smart contract functions as intended.
- Identify potential security issues and vulnerabilities.

This report provides an analysis of the smart contracts to understand risk exposure and includes recommendations for enhancing their security posture.



Issues Checking Status

Issue Description		Checking status
1.	Compiler Errors	Passed
2.	Race Conditions and Reentrancy	Passed
3.	Possible Delays in Data Delivery	Passed
4.	Oracle Calls	Passed
5.	Front Running	Passed
6.	Timestamp Dependence	Passed
7.	Integer Overflow and Underflow	Passed
8.	DoS with Revert	Passed
9.	DoS with Block Gas Limit	Passed
10.	Methods Execution Permissions	Passed
11.	Economy Model of the Contract	Passed
12.	Impact of Exchange Rate on Logic	Passed
13.	Private User Data Leaks	Passed
14.	Malicious Event Log	Passed
15.	Scoping and Declarations	Passed
16.	Uninitialized Storage Pointers	Passed
17.	Arithmetic Accuracy	Passed
18.	Design Logic	Passed
19.	Cross-Function Race Conditions	Passed
20.	Safe Open Zeppelin contracts implementation and usage.	Passed
21.	Fallback Function Security	Passed

Security Issues

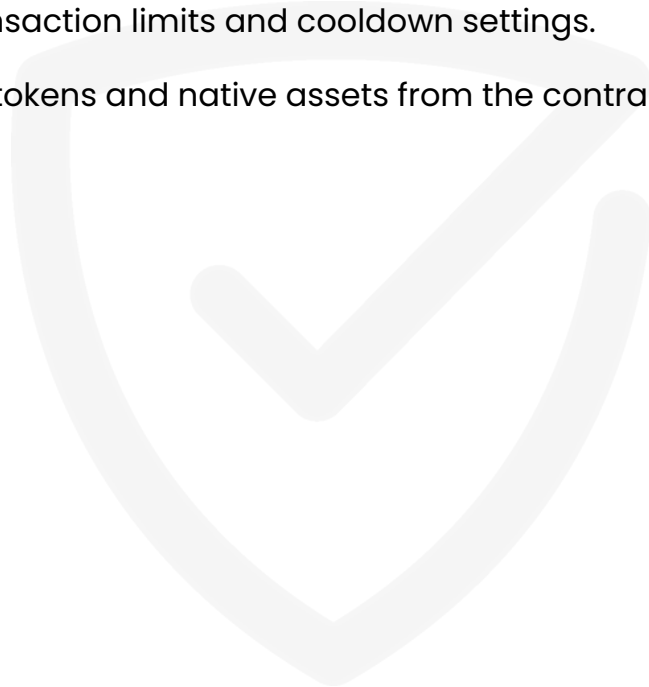
- ✓ **High Severity Issues:** None
- ✓ **Medium Severity Issues:** None
- ✓ **Low Severity Issues:** None



Owner Privileges

While the contract ownership is not renounced, the owner has the following privileges:

- Exclude addresses from fees and rewards.
- Modify tax settings.
- Change the reward token and development addresses.
- Adjust transaction limits and cooldown settings.
- Withdraw tokens and native assets from the contract.



Conclusion

The smart contracts for TonCapy demonstrate robust security, with no high, medium, or low-severity issues detected. However, liquidity pair contracts and further fund operations were not within the scope of this audit.

Security Score: 98

Note: This report is provided for informational purposes and should not be considered as investment advice or a guarantee of code sustainability.

