

Smart Contract Audit

FOR

ECASH-X

DATED: 02 June 24'



AUDIT SUMMARY

Project name - ECASH-X

Date: 02 June, 2024

Scope of Audit- Audit Ace was consulted to conduct the smart contract audit of the solidity source codes.

Audit Status: PASSED

Issues Found

Status	Critical	High	Medium	Low	Suggestion
Open	0	0	0	0	0
Acknowledged	0	0	0	0	0
Resolved	0	0	0	0	0



USED TOOLS

Tools:

1- Manual Review:

A line by line code review has been performed by audit ace team.

2- BSC Test Network: All tests were conducted on the BSC Test network, and each test has a corresponding transaction attached to it. These tests can be found in the "Functional Tests" section of the report.

3- Slither:

The code has undergone static analysis using Slither.

Testnet version:

The tests were performed using the contract deployed on the BSC Testnet, which can be found at the following address:

https://testnet.bscscan.com/address/0x548867e792ab 2b1c3d0c6ff4ef576795e3667a5e#code



Token Information

Token Address:

0xe78a4FeD86012D92FC432AaE8588850d278a1A73

Name: ECASH-X

Symbol: ECASH-X

Decimals: 18

Network: BscScan

Token Type: BEP-20

Owner: 0x3163d46640F1195E2A90A661c83AF8Ebd7d775eD

Deployer:

0x3163d46640F1195E2A90A661c83AF8Ebd7d775eD

Checksum: Ae1c3a4fbb6e83e8393a57617b5a5221

Testnet:

https://testnet.bscscan.com/address/0x548867e792ab2b1c3d 0c6ff4ef576795e3667a5e#code



TOKEN OVERVIEW

Buy Fee: 0-0%

Sell Fee: 0-0%

Transfer Fee: 0-0%

Fee Privilege: Owner

Ownership: Owned

Minting: No

Max Tx: No

Blacklist: No



AUDIT METHODOLOGY

The auditing process will follow a routine as special considerations by Auditace:

- Review of the specifications, sources, and instructions provided to Auditace to make sure the contract logic meets the intentions of the client without exposing the user's funds to risk.
- Manual review of the entire codebase by our experts, which is the process of reading source code line-byline in an attempt to identify potential vulnerabilities.
- Specification comparison is the process of checking whether the code does what the specifications, sources, and instructions provided to Auditace describe.
- Test coverage analysis determines whether the test cases are covering the code and how much code isexercised when we run the test cases.
- Symbolic execution is analysing a program to determine what inputs cause each part of a program to execute.
- Reviewing the codebase to improve maintainability, security, and control based on the established industry and academic practices.



VULNERABILITY CHECKLIST





CLASSIFICATION OF RISK

Severity

- Critical
- High-Risk
- ♦ Medium-Risk
- Low-Risk
- Gas Optimization
 /Suggestion

Description

These vulnerabilities could be exploited easily and can lead to asset loss, data loss, asset, or data manipulation. They should be fixed right away.

A vulnerability that affects the desired outcome when using a contract, or provides the opportunity to use a contract in an unintended way.

A vulnerability that could affect the desired outcome of executing the contract in a specific scenario.

A vulnerability that does not have a significant impact on possible scenarios for the use of the contract and is probably subjective.

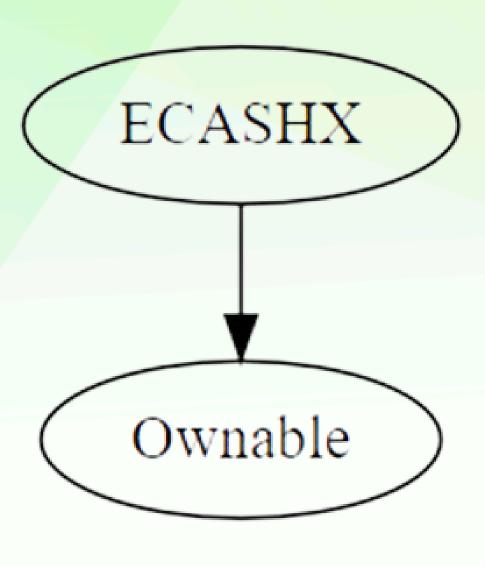
A vulnerability that has an informational character but is not affecting any of the code.

Findings

Severity	Found
♦ Critical	0
♦ High-Risk	0
◆ Medium-Risk	0
◆ Low-Risk	0
Gas Optimization /Suggestions	0



INHERITANCE TREE





POINTS TO NOTE

- The owner can transfer ownership.
- The owner can mint new tokens no more than the max token limit of 40000000.
- The owner can mint tokens for sales addresses not more than 15000000.
- The owner can mint tokens for reserve addresses not more than 22500000.



STATIC ANALYSIS

Result => A static analysis of contract's source code has been performed using slither,

No major issues were found in the output



FUNCTIONAL TESTING

1- Approve (passed):

https://testnet.bscscan.com/tx/0xc1d24c295f0ff30b57a02d48b1a93ded328 1d7b8775653696c164d9a606b003f

2- _mint (passed):

https://testnet.bscscan.com/tx/0xbc963ad573cac0a2cba1097090fa2ecb811fa655c2b1a1af99e368378da119aa

3- Mint for Sale (passed):

https://testnet.bscscan.com/tx/0x0190c41707111a150b8fb56d5c4d52b94e84 86c689078d0305e92479610e6f3f

4- Mint for Reserve (passed):

https://testnet.bscscan.com/tx/0x5a37675be4dbd429f1e0b48497ea5c3024fbaad0b02b4dcba647feb435ec794f



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