

Smart Contract Audit

FOR

Xmar Token

DATED: 24 November 23'



AUDIT SUMMARY

Project name - Xmar Token

Date: 24 November 2023

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/0x11c109cb14b6bfe77db35910f2c746eaea5acc96#code



Token Information

Token Address: -

0x4f3e42Ff6FfD40e5CF5BAc5Fb7Dd26253513F4ba

Name: XmarToken

Symbol: XT

Decimals: 18

Network: Binance smart chain

Token Type: BEP-20

Owner: - 0x9ce658623526B120522aeb5f070DEBB4Ee787099

Deployer: -

0x9ce658623526B120522aeb5f070DEBB4Ee787099

Checksum: 511e96358f29bfd04d2679343a6d247a

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TOKEN OVERVIEW

Max tax

Buy: 6%

Sell: 10%

Transfer: 0%



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.

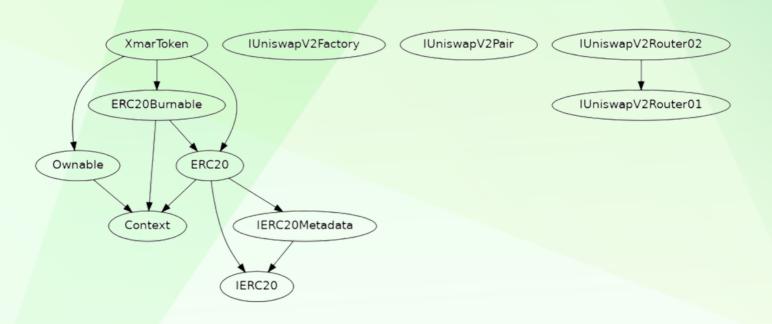
A vulnerability that has an informational character but is not affecting any of the code.

Findings

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



INHERITANCE TREE





POINTS TO NOTE

- Owner can set marketing wallet address,
- Owner can set Dev wallet address
- Owner can set any arbitary value in NumTokensSellToAddToLiquidity, NumTokensSellMarketing and NumTokensSellDev
- owner can exclude/include accounts from rewards
- owner can enable/disable swapping



STATIC ANALYSIS

```
<_excluded.length (XmarToken.sol#1156) should use cached array length instead of referencing `len
:://github.com/crytic/slither/wiki/Detector-Documentation#cache-array-length
tectors:
en._tokenTransfer(address_address_uint256_XmarToken.Taxes) (XmarToken.sol#1298-1364) performs a multiplication on the result of a division:
- tRfi = (tAmount * usedTaxes.cellRemards) / 100 (XmarToken.sol#1351)
- _rTotal = tRfi * _getRate() (XmarToken.sol#1351)
- _rTotal = tRfi * _getRate() (XmarToken.sol#1354)
- (thos://github.com/crytic/slither/miki/Detector-Documentation#divide-before-multiply
tectors:
en.add.iquidity(uint256_uint256) (XmarToken.sol#1268-1281) ignores return value by uniswapv2Router.add.iquidityETH{value: ethAmount}(address(this),tokenAmount,0,0,DEAD_ADORESS,block.timestamp) (Xm
                        artown.manuter.
calls:
dLiquify(contractTokenBalance) (XmarToken.sol#1482)
- uniswaoV2Router.addliquidityETH[value: ethAmount](a
```



STATIC ANALYSIS

```
### Sections of the National Principle (National Sections) | National Principle (National Sections) | National Sections) | National Sections | Nat
```

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/0x917fc29bde708314662842bd935a6ff6f1f70f5e5e647bc4662dcd6859682eac

2- Increase Allowance (passed):

https://testnet.bscscan.com/tx/0x5e58ebf086e109e84c4f04b314cd09a3c0de2d4a a3967d830b6bed7e226bff69

3- Decrease Allowance (passed):

https://testnet.bscscan.com/tx/0xc9bf67052cbaba3f44316780af9e1fb988f34bb5157ff51c12ad63d3ba034313

4- Set Dev Address (passed):

https://testnet.bscscan.com/tx/0x38b65c9d044d18d854dff6ab9c1cbf274f90de99dbc078582598332e5d79a7b8

5- Set Marketing Address (passed):

https://testnet.bscscan.com/tx/0x2366fe5d66211a0e2f4f345715dd813ee337ba4e5 95534e9186692fbc4181ab0

6- Set Swap And Liquify Enabled (passed):

https://testnet.bscscan.com/tx/0xad81d3655030ebcfaecda1bd2f76da1f52f8960fd 94b21c7388e27aa7b50a461

7- Set Trade Tax Status (passed):

https://testnet.bscscan.com/tx/0x73fb67a308456948d0081149667f12ddddcf07d7 50940de78e918c6e3d6b061e



FUNCTIONAL TESTING

8- Transfer (passed):

https://testnet.bscscan.com/tx/0x6b32cd0bdb57d86a684031c512a199d1eee833101d52966766385b96272a83c7

9- Exclude Account Rewards (passed):

https://testnet.bscscan.com/tx/0xeea8f563f80647b19ee78210ed583234416e64db 1acae667650f526b96b500f3

10- Include In Fee (passed):

https://testnet.bscscan.com/tx/0x40739e30fe78c3faa051dcb8ba01b3f350d0db89 00c0d5735a4923b35a0aeb86



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