

Smart Contract Audit

FOR

Xmar Token

DATED: 30 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/0xdf5e6911f7d7a 4429f52410c8218a46d3cdc39fe#code



Token Information

Token Address: -

0x2f785f38Ae0AB755570777b6A2c3395E7916f0B0

Name: XmarToken

Symbol: XT

Decimals: 18

Network: Binance smart chain

Token Type: BEP-20

Owner: - 0x7d42391EF358707B3781eca47dce8448D6a295Ac

Deployer: -

0x7d42391EF358707B3781eca47dce8448D6a295Ac

Checksum: 511e96358f29bfd04d2679343a6d247a

Testnet version:

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

https://testnet.bscscan.com/address/0xdf5e6911f7d7a4429f5 2410c8218a46d3cdc39fe#code



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.

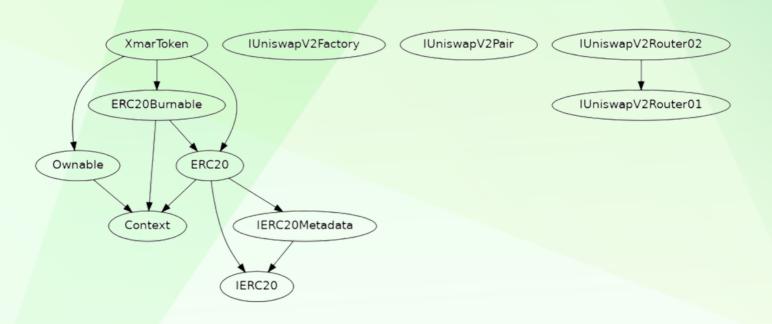
A vulnerability that has an informational character but is not affecting any of the code.

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 * _eyetRate() (XmarToken.sol#1351)
-c: https://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.addLiquidityETH{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/0x292061948d8f10e4464ab84e18834841e02 062225e5b11d7eee3d9eceb70e522

2- Increase Allowance (passed):

https://testnet.bscscan.com/tx/0x2f6bb01f53f330eb5c1c1e5549f2a4e9bc91a7e8f7edcd3be366062b43e5c0c8

3- Decrease Allowance (passed):

https://testnet.bscscan.com/tx/0x4b9407bfe997c98a21914efb12b50ece7f2b95acdd8184bef51f8ce3af0bd2ed

4- Set Dev Address (passed):

https://testnet.bscscan.com/tx/0x495bda067ed751b5ff666afec6fb43579a3e69deaa32c1c3386a3ddf62c9e6db

5- Set Marketing Address (passed):

 $https://testnet.bscscan.com/tx/0x07f2f557d89fb2b33ed49bdf2bdf7d7ed92\\e8d718ca6b1ecb42ce8ed2529701a$

6- Set Swap and Liquify Enabled (passed):

https://testnet.bscscan.com/tx/0x74b2a7a0b4af84f98481b3cdaa1e2bebd46 fc1a2877d9f8a2712eb9f963b77fa

7- Set Trade Tax Status (passed):

https://testnet.bscscan.com/tx/0xc3f7431b40bca3e4d18b91ab6d7649ccff216243d21b353756d29de1cea99e67



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