



Smart Contract Audit

FOR
ASEC

DATED : 13 June 23'



AUDIT SUMMARY

Project name – FSEC

Date: 13 June, 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:

Contract has been tested on binance smart chain testnet which can be found in below link:

<https://testnet.bscscan.com/token/0xeC29579C7d0284A61edCc32A31642C686261abFE>



Token Information

Token Name : AntiSEC

Token Symbol: ASEC

Decimals: 18

Token Supply: 500,000,000,000

Token Address:

0x0304C6A7fAe5438b5E74d53e5289B9059E13cDd1

Checksum:

3939bbcfb4f12229165b8412cb8898843805b775

Owner:

0xc00F8C36d18753360204Eed31B5b72115c66A413

Deployer:

0xc00F8C36d18753360204Eed31B5b72115c66A413



TOKEN OVERVIEW

Fees:

Buy Fees: 0-12%

Sell Fees: 0-12%

Transfer Fees: 0-12%

Fees Privilege: Owner

Ownership: Owned

Minting: None

Max Tx Amount/ Max Wallet Amount: No

Blacklist: No

Other Privileges: - initial distribution of the token
- enabling trades manual
- modifying fees



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-by-line 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 is exercised 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

- | | |
|------------------------------------|-------------------------------|
| ✓ Return values of low-level calls | ✓ Gasless Send |
| ✓ Private modifier | ✓ Using block.timestamp |
| ✓ Multiple Sends | ✓ Re-entrancy |
| ✓ Using Suicide | ✓ Tautology or contradiction |
| ✓ Gas Limitand Loops | ✓ Timestamp Dependence |
| ✓ Address hardcoded | ✓ Revert/require functions |
| ✓ Exception Disorder | ✓ Use of tx.origin |
| ✓ Using inline assembly | ✓ Integer overflow/underflow |
| ✓ Divide before multiply | ✓ Dangerous strict equalities |
| ✓ Missing Zero Address Validation | ✓ Using SHA3 |
| ✓ Compiler version not fixed | ✓ Using throw |
-



CLASSIFICATION OF RISK

Severity

Description

◆ Critical	These vulnerabilities could be exploited easily and can lead to asset loss, data loss, asset, or data manipulation. They should be fixed right away.
◆ High-Risk	A vulnerability that affects the desired outcome when using a contract, or provides the opportunity to use a contract in an unintended way.
◆ Medium-Risk	A vulnerability that could affect the desired outcome of executing the contract in a specific scenario.
◆ Low-Risk	A vulnerability that does not have a significant impact on possible scenarios for the use of the contract and is probably subjective.
◆ Gas Optimization / Suggestion	A vulnerability that has an informational character but is not affecting any of the code.

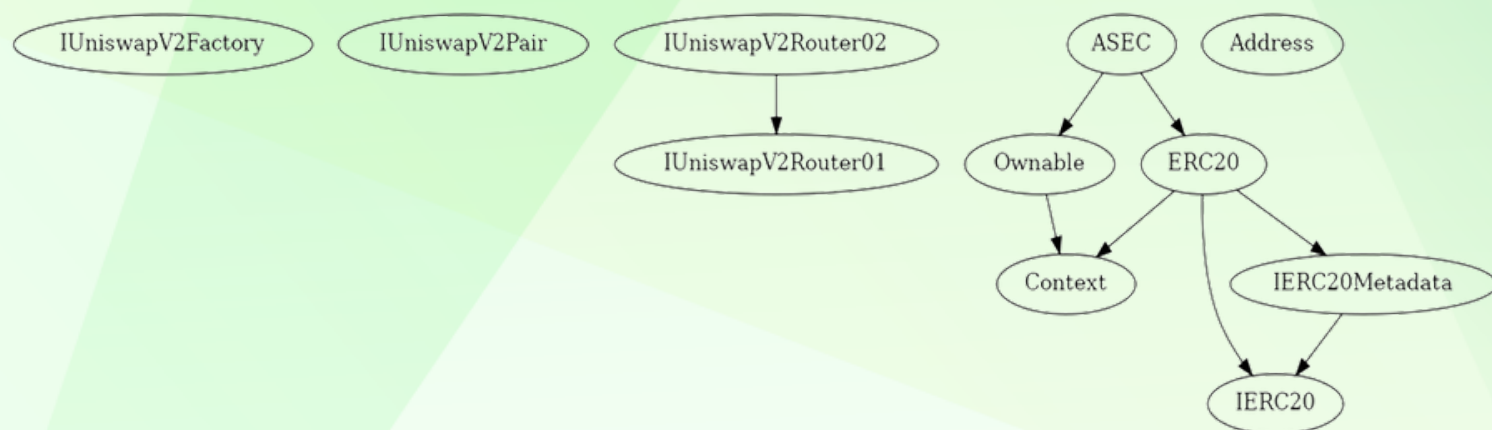
Findings

Severity

Found

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

INHERITANCE TREE



POINTS TO NOTE

- Sum of buy and sell fee can not exceed 12% (buy + sell $\leq 12\%$)
 - Owner is able to change transfer fee in range (0-12%)
 - Owner is not able to set max buy/sell/transfer/hold amount
 - Owner is not able to blacklist an arbitrary wallet
 - Owner is not able to mint new tokens
 - Owner is not able to disable trades
 - Owner has 100% of total supply after deployment
 - Owner must enable trades manually
-



CONTRACT ASSESMENT

Contract	Type	Bases			
-----	-----	-----	-----	-----	-----
└	**Function Name**	**Visibility**	**Mutability**	**Modifiers**	
	IUniswapV2Factory	Interface			
└	feeTo	External !		NO !	
└	feeToSetter	External !		NO !	
└	getPair	External !		NO !	
└	allPairs	External !		NO !	
└	allPairsLength	External !		NO !	
└	createPair	External !	●	NO !	
└	setFeeTo	External !	●	NO !	
└	setFeeToSetter	External !	●	NO !	
	IUniswapV2Pair	Interface			
└	name	External !		NO !	
└	symbol	External !		NO !	
└	decimals	External !		NO !	
└	totalSupply	External !		NO !	
└	balanceOf	External !		NO !	
└	allowance	External !		NO !	
└	approve	External !	●	NO !	
└	transfer	External !	●	NO !	
└	transferFrom	External !	●	NO !	
└	DOMAIN_SEPARATOR	External !		NO !	
└	PERMIT_TYPEHASH	External !		NO !	
└	nonces	External !		NO !	
└	permit	External !	●	NO !	
└	MINIMUM_LIQUIDITY	External !		NO !	
└	factory	External !		NO !	
└	token0	External !		NO !	
└	token1	External !		NO !	
└	getReserves	External !		NO !	
└	price0CumulativeLast	External !		NO !	
└	price1CumulativeLast	External !		NO !	
└	kLast	External !		NO !	
└	mint	External !	●	NO !	
└	burn	External !	●	NO !	
└	swap	External !	●	NO !	
└	skim	External !	●	NO !	
└	sync	External !	●	NO !	



CONTRACT ASSESMENT

```
|  | initialize | External ! | ● | NO ! | |
|  |  |  |  |  |  |
| **IUniswapV2Router01** | Interface |  |  |
|  | factory | External ! |  | NO ! |
|  | WETH | External ! |  | NO ! |
|  | addLiquidity | External ! | ● | NO ! |
|  | addLiquidityETH | External ! | $ | NO ! |
|  | removeLiquidity | External ! | ● | NO ! |
|  | removeLiquidityETH | External ! | ● | NO ! |
|  | removeLiquidityWithPermit | External ! | ● | NO ! |
|  | removeLiquidityETHWithPermit | External ! | ● | NO ! |
|  | swapExactTokensForTokens | External ! | ● | NO ! |
|  | swapTokensForExactTokens | External ! | ● | NO ! |
|  | swapExactETHForTokens | External ! | $ | NO ! |
|  | swapTokensForExactETH | External ! | ● | NO ! |
|  | swapExactTokensForETH | External ! | ● | NO ! |
|  | swapETHForExactTokens | External ! | $ | NO ! |
|  | quote | External ! |  | NO ! |
|  | getAmountOut | External ! |  | NO ! |
|  | getAmountIn | External ! |  | NO ! |
|  | getAmountsOut | External ! |  | NO ! |
|  | getAmountsIn | External ! |  | NO ! |
|  |  |  |  |  |
| **IUniswapV2Router02** | Interface | IUniswapV2Router01 |  |
|  | removeLiquidityETHSupportingFeeOnTransferTokens | External ! | ● | NO ! |
|  | removeLiquidityETHWithPermitSupportingFeeOnTransferTokens | External ! | ● | NO ! |
|  | swapExactTokensForTokensSupportingFeeOnTransferTokens | External ! | ● | NO ! |
|  | swapExactETHForTokensSupportingFeeOnTransferTokens | External ! | $ | NO ! |
|  | swapExactTokensForETHSupportingFeeOnTransferTokens | External ! | ● | NO ! |
|  |  |  |  |  |
| **IERC20** | Interface |  |  |
|  | totalSupply | External ! |  | NO ! |
|  | balanceOf | External ! |  | NO ! |
|  | transfer | External ! | ● | NO ! |
|  | allowance | External ! |  | NO ! |
|  | approve | External ! | ● | NO ! |
|  | transferFrom | External ! | ● | NO ! |
|  |  |  |  |  |
| **IERC20Metadata** | Interface | IERC20 |  |
|  | name | External ! |  | NO ! |
|  | symbol | External ! |  | NO ! |
|  | decimals | External ! |  | NO ! |
```

CONTRACT ASSESMENT

```

||||| |
| **Address** | Library | |||
|  | isContract | Internal | | |
|  | sendValue | Internal | | |
|  | functionCall | Internal | | |
|  | functionCall | Internal | | |
|  | functionCallWithValue | Internal | | |
|  | functionCallWithValue | Internal | | |
|  | functionStaticCall | Internal | | |
|  | functionStaticCall | Internal | | |
|  | functionDelegateCall | Internal | | |
|  | functionDelegateCall | Internal | | |
|  | verifyCallResultFromTarget | Internal | | |
|  | verifyCallResult | Internal | | |
|  | _revert | Private | | |
|||||
| **Context** | Implementation | |||
|  | _msgSender | Internal | | |
|  | _msgData | Internal | | |
|||||
| **Ownable** | Implementation | Context |||
|  | <Constructor> | Public | | NO |
|  | owner | Public | | NO |
|  | renounceOwnership | Public | | onlyOwner |
|  | transferOwnership | Public | | onlyOwner |
|||||
| **ERC20** | Implementation | Context, IERC20, IERC20Metadata |||
|  | <Constructor> | Public | | NO |
|  | name | Public | | NO |
|  | symbol | Public | | NO |
|  | decimals | Public | | NO |
|  | totalSupply | Public | | NO |
|  | balanceOf | Public | | NO |
|  | transfer | Public | | NO |
|  | allowance | Public | | NO |
|  | approve | Public | | NO |
|  | transferFrom | Public | | NO |
|  | increaseAllowance | Public | | NO |
|  | decreaseAllowance | Public | | NO |
|  | _transfer | Internal | | |
|  | _mint | Internal | | |
|  | _burn | Internal | | |

```



CONTRACT ASSESMENT

```
|  | _approve | Internal | | | |
|  | _beforeTokenTransfer | Internal | | | |
|  | _afterTokenTransfer | Internal | | | |
|  |  |  |  |  |  |
| **ASEC** | Implementation | ERC20, Ownable | | |
|  | <Constructor> | Public | | | ERC20 |
|  | <Receive Ether> | External | | | NO |
|  | enableTrading | Public | | | onlyOwner |
|  | claimStuckTokens | External | | | onlyOwner |
|  | excludeFromFees | External | | | onlyOwner |
|  | isExcludedFromFees | Public | | | NO |
|  | updateBuyFees | External | | | onlyOwner |
|  | updateSellFees | External | | | onlyOwner |
|  | updateWalletToWalletTransferFee | External | | | onlyOwner |
|  | changeMarketingWallet | External | | | onlyOwner |
|  | _transfer | Internal | | | |
|  | setSwapTokensAtAmount | External | | | onlyOwner |
|  | swapAndLiquify | Private | | | |
|  | swapAndSendMarketing | Private | | | |
```

Legend

```
| Symbol | Meaning |
|:-----:|-----|
| | Function can modify state |
| | Function is payable |
```



STATIC ANALYSIS

```
Address.functionCallWithValue(address,bytes,uint256,string) (contracts/Token.sol#349-358) is never used and should be removed
Address.functionDelegateCall(address,bytes) (contracts/Token.sol#391-393) is never used and should be removed
Address.functionDelegateCall(address,bytes,string) (contracts/Token.sol#401-408) is never used and should be removed
Address.functionStaticCall(address,bytes) (contracts/Token.sol#366-368) is never used and should be removed
Address.functionStaticCall(address,bytes,string) (contracts/Token.sol#376-383) is never used and should be removed
Address.isContract(address) (contracts/Token.sol#257-263) is never used and should be removed
Address.verifyCallResult(bool,bytes,string) (contracts/Token.sol#440-450) is never used and should be removed
Address.verifyCallResultFromTarget(address,bool,bytes,string) (contracts/Token.sol#416-432) is never used and should be removed
Context._msgData() (contracts/Token.sol#472-475) is never used and should be removed
ERC20._burn(address,uint256) (contracts/Token.sol#626-641) is never used and should be removed
Reference: https://github.com/crytic/slither/wiki/Detector-Documentation#dead-code

Pragma version^0.8.17 (contracts/Token.sol#7) necessitates a version too recent to be trusted. Consider deploying with 0.6.12/0.7.6/0.8.16
solc-0.8.20 is not recommended for deployment
Reference: https://github.com/crytic/slither/wiki/Detector-Documentation#incorrect-versions-of-solidity

Low level call in Address.sendValue(address,uint256) (contracts/Token.sol#281-286):
- (success) = recipient.callWithValue(amount)() (contracts/Token.sol#284)
Low level call in Address.functionCallWithValue(address,bytes,uint256,string) (contracts/Token.sol#349-358):
- (success, returndata) = target.callWithValue(value)(data) (contracts/Token.sol#356)
Low level call in Address.functionStaticCall(address,bytes,string) (contracts/Token.sol#376-383):
- (success, returndata) = target.staticcall(data) (contracts/Token.sol#381)
Low level call in Address.functionDelegateCall(address,bytes,string) (contracts/Token.sol#401-408):
- (success, returndata) = target.delegatecall(data) (contracts/Token.sol#406)
Reference: https://github.com/crytic/slither/wiki/Detector-Documentation#low-level-calls

Function IUniswapV2Pair.DOMAIN_SEPARATOR() (contracts/Token.sol#37) is not in mixedCase
Function IUniswapV2Pair.PERMIT_TYPEHASH() (contracts/Token.sol#38) is not in mixedCase
Function IUniswapV2Pair.MINIMUM_LIQUIDITY() (contracts/Token.sol#55) is not in mixedCase
Function IUniswapV2Router01.WETH() (contracts/Token.sol#75) is not in mixedCase
Parameter ASEC.updateBuyFees(uint256,uint256)._liquidityFeeOnBuy (contracts/Token.sol#778) is not in mixedCase
Parameter ASEC.updateBuyFees(uint256,uint256)._marketingFeeOnBuy (contracts/Token.sol#778) is not in mixedCase
Parameter ASEC.updateSellFees(uint256,uint256)._liquidityFeeOnSell (contracts/Token.sol#788) is not in mixedCase
Parameter ASEC.updateSellFees(uint256,uint256)._marketingFeeOnSell (contracts/Token.sol#788) is not in mixedCase
Parameter ASEC.updateWalletToWalletTransferFee(uint256).walletToWalletTransferFee (contracts/Token.sol#798) is not in mixedCase
Parameter ASEC.changeMarketingWallet(address).marketingWallet (contracts/Token.sol#804) is not in mixedCase
Reference: https://github.com/crytic/slither/wiki/Detector-Documentation#conformance-to-solidity-naming-conventions

Redundant expression "this (contracts/Token.sol#473)" inContext (contracts/Token.sol#467-476)
Reference: https://github.com/crytic/slither/wiki/Detector-Documentation#redundant-statements

Variable IUniswapV2Router01.addLiquidity(address,address,uint256,uint256,uint256,uint256,address,uint256).amountADesired (contracts/Token.sol#80) is too similar to IUniswapV2Router01.addLiquidity(address,address,uint256,uint256,uint256,uint256,address,uint256).amountBDesired (contracts/Token.sol#81)
Reference: https://github.com/crytic/slither/wiki/Detector-Documentation#variable-names-too-similar

ASEC.uniswapV2Pair (contracts/Token.sol#672) should be immutable
ASEC.uniswapV2Router (contracts/Token.sol#671) should be immutable
Reference: https://github.com/crytic/slither/wiki/Detector-Documentation#state-variables-that-could-be-declared-immutable
```

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- Adding liquidity (passed):

<https://testnet.bscscan.com/tx/0xc0a7637cdb7a856bdf16b6537cc9caf0f2a5c140aae17624cb449ee94a07c845>

2- Buying when excluded from fees (0% tax) (passed):

<https://testnet.bscscan.com/tx/0xb3eb36c67709b77068a3d80d8542781dbb88444be8b1cd3d92c95140033e268b9>

3- Selling when excluded from fees (0% tax) (passed):

<https://testnet.bscscan.com/tx/0x957956dc1f2d02932c2119b827050ab07685413d1dc2527d393e62cb3924c7e6>

4- Transferring when excluded from fees (0% tax) (passed):

<https://testnet.bscscan.com/tx/0x6485a800d91a7d38f6fc3934eda97a8f7da7aac15530a863d70629d6cb10b847>

5- Buying when not excluded from fees (0-12% tax) (passed):

<https://testnet.bscscan.com/tx/0x99c25805f4a3099d2a96cdce8fc995c6c9558b61c2028079745ef28eebb8a54e>

6- Selling when not excluded from fees (0-12% tax) (passed):

<https://testnet.bscscan.com/tx/0x55e61723f80354c0eba625c8e3e8b1623d195a7c3d06c06e83b695a390a7695d>



FUNCTIONAL TESTING

7- Transferring when not excluded from fees (0-12% tax) (passed):

<https://testnet.bscscan.com/tx/0x4953aa8afbafc494976e132f32332143dc7818fb7630180e8d7f2d25b6728b71>

8- Internal swap (BNB to marketing wallet + auto-liquidity) (passed):

<https://testnet.bscscan.com/tx/0x55e61723f80354c0eba625c8e3e8b1623d195a7c3d06c06e83b695a390a7695d>



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