



Smart Contract Audit

FOR
FitP

DATED : 9 July 23'



AUDIT SUMMARY

Project name – FitP

Date: 8 July, 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/token/0xacF8cFE42F7BFC2c60683A4c219Df45A45EaA284>



Token Information

Token Name : FitPepe

Token Symbol: FitP

Decimals: 18

Token Supply: 1,000,000,000,000

Token Address:

0x4339d686cd4947cBE0c5257Ae0D916E96D1A4b7E

Checksum:

9a3da2962420e49aa3e157b7579246ebf53986ca

Owner:

0x567E9B6Ced720D40d5b1A771740542c7A3b347c8
(at time of writing the audit)

Deployer:

0x9A128da5E5a7E19be3875784FAF9656f96cebFC7



TOKEN OVERVIEW

Fees:

Buy Fees: 0-6%

Sell Fees: 0-8%

Transfer Fees: 0%

Fees Privilege: owner

Ownership: owned

Minting: none

Max Tx Amount/ Max Wallet Amount: Yes

Blacklist: No

Other Privileges: - Initial distribution of the tokens
- 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

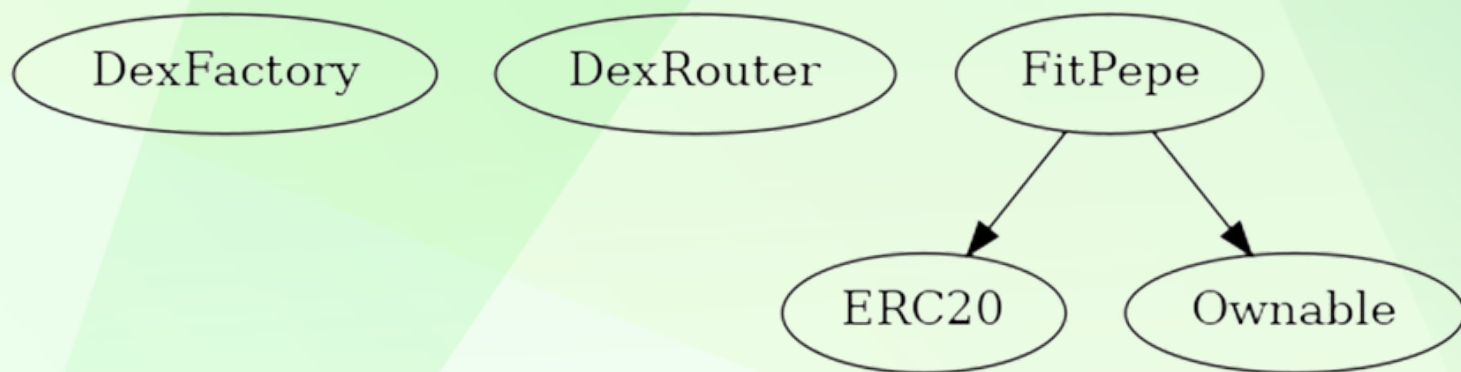
◆ Low-Risk

0

◆ Gas Optimization / Suggestions

0

INHERITANCE TREE





POINTS TO NOTE

- **Owner is able to change buy/sell fees within 0-6% for buys and 0-8% for sells**
 - Owner is not able to blacklist an address
 - Owner is not able to disable buy/sell/transfers
 - Owner is not able to set max wallet limit and minimum wallet limits
 - Owner is not able to mint new tokens
-



CONTRACT ASSESMENT

Contract	Type	Bases			
:-----: :-----: :-----: :-----: :-----:					
L	**Function Name**	**Visibility**	**Mutability**	**Modifiers**	
DexFactory Interface					
L	createPair	External	!	●	NO !
DexRouter Interface					
L	factory	External	!		NO !
L	WETH	External	!		NO !
L	addLiquidityETH	External	!	💰	NO !
L	swapExactTokensForETHSupportingFeeOnTransferTokens	External	!	●	NO !
FitPepe Implementation ERC20, Ownable					
L	<Constructor>	Public	!	●	ERC20
L	setMrketingWallet	External	!	●	onlyOwner
L	setBuyBackWallet	External	!	●	onlyOwner
L	setBuyTaxes	External	!	●	onlyOwner
L	setSellTaxes	External	!	●	onlyOwner
L	setSwapTokensAtAmount	External	!	●	onlyOwner
L	toggleSwapping	External	!	●	onlyOwner
L	setWhitelistStatus	External	!	●	onlyOwner
L	checkWhitelist	External	!		NO !
L	_takeTax	Internal	🔒	●	
L	_transfer	Internal	🔒	●	
L	internalSwap	Internal	🔒	●	
L	swapToETH	Internal	🔒	●	
L	withdrawStuckETH	External	!	●	onlyOwner
L	withdrawStuckTokens	External	!	●	onlyOwner
L	<Receive Ether>	External	!	💰	NO !

Legend

Symbol	Meaning
:-----: :-----:	
●	Function can modify state
💰	Function is payable



STATIC ANALYSIS

```
Context._msgData() (contracts/Token.sol#116-118) is never used and should be removed
ERC20._burn(address,uint256) (contracts/Token.sol#471-487) is never used and should be removed
SafeMath.add(uint256,uint256) (contracts/Token.sol#679-681) is never used and should be removed
SafeMath.div(uint256,uint256) (contracts/Token.sol#721-723) is never used and should be removed
SafeMath.div(uint256,uint256,string) (contracts/Token.sol#777-786) is never used and should be removed
SafeMath.mod(uint256,uint256) (contracts/Token.sol#737-739) is never used and should be removed
SafeMath.mod(uint256,uint256,string) (contracts/Token.sol#803-812) is never used and should be removed
SafeMath.mul(uint256,uint256) (contracts/Token.sol#707-709) is never used and should be removed
SafeMath.sub(uint256,uint256) (contracts/Token.sol#693-695) is never used and should be removed
SafeMath.sub(uint256,uint256,string) (contracts/Token.sol#754-763) is never used and should be removed
SafeMath.tryAdd(uint256,uint256) (contracts/Token.sol#608-614) is never used and should be removed
SafeMath.tryDiv(uint256,uint256) (contracts/Token.sol#650-655) is never used and should be removed
SafeMath.tryMod(uint256,uint256) (contracts/Token.sol#662-667) is never used and should be removed
SafeMath.tryMul(uint256,uint256) (contracts/Token.sol#633-643) is never used and should be removed
SafeMath.trySub(uint256,uint256) (contracts/Token.sol#621-626) 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#9) necessitates a version too recent to be trusted. Consider deploying with 0.6.12/0.7.6/0.8.16
Pragma version^0.8.0 (contracts/Token.sol#99) allows old versions
Pragma version^0.8.0 (contracts/Token.sol#131) allows old versions
Pragma version^0.8.0 (contracts/Token.sol#167) allows old versions
Pragma version^0.8.0 (contracts/Token.sol#590) allows old versions
Pragma version^0.8.0 (contracts/Token.sol#825) allows old versions
Pragma version^0.8.17 (contracts/Token.sol#918) 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 FitPepe.internalSwap() (contracts/Token.sol#1083-1108):
- (success) = marketingWallet.call{value: (totalMarketingFee * received) / totalShares}() (contracts/Token.sol#1101)
- (success) = buybackWallet.call{value: address(this).balance}() (contracts/Token.sol#1106)
Low level call in FitPepe.withdrawStuckETH() (contracts/Token.sol#1121-1124):
- (success) = address(msg.sender).call{value: address(this).balance}() (contracts/Token.sol#1122)
Reference: https://github.com/crytic/slither/wiki/Detector-Documentation#low-level-calls

Function DexRouter.WETH() (contracts/Token.sol#927) is not in mixedCase
Event FitPepeMarketingWalletChanged(address) (contracts/Token.sol#978) is not in CapWords
Parameter FitPepe.setMarketingWallet(address)._newMarketing (contracts/Token.sol#999) is not in mixedCase
Parameter FitPepe.setBuyBackWallet(address)._newBuyBack (contracts/Token.sol#1004) is not in mixedCase
Parameter FitPepe.setBuyTaxes(uint256,uint256)._marketingTax (contracts/Token.sol#1009) is not in mixedCase
Parameter FitPepe.setBuyTaxes(uint256,uint256)._buybackTax (contracts/Token.sol#1009) is not in mixedCase
Parameter FitPepe.setSellTaxes(uint256,uint256)._marketingTax (contracts/Token.sol#1016) is not in mixedCase
Parameter FitPepe.setSellTaxes(uint256,uint256)._buybackTax (contracts/Token.sol#1016) is not in mixedCase
Parameter FitPepe.setSwapTokensAtAmount(uint256)._newAmount (contracts/Token.sol#1023) is not in mixedCase
Parameter FitPepe.setWhitelistStatus(address,bool)._wallet (contracts/Token.sol#1036) is not in mixedCase
Parameter FitPepe.setWhitelistStatus(address,bool)._status (contracts/Token.sol#1036) is not in mixedCase
Parameter FitPepe.checkWhitelist(address)._wallet (contracts/Token.sol#1041) is not in mixedCase
Parameter FitPepe.swapToETH(uint256)._amount (contracts/Token.sol#1110) is not in mixedCase
Parameter FitPepe.withdrawStuckTokens(address).BEP20_token (contracts/Token.sol#1126) is not in mixedCase
Constant FitPepe._totalSupply (contracts/Token.sol#953) is not in UPPER_CASE_WITH_UNDERSCORES
Reference: https://github.com/crytic/slither/wiki/Detector-Documentation#conformance-to-solidity-naming-conventions
```

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

No major issues were found in the output



FUNCTIONAL TESTING

Router (PCS V2):

0xD99D1c33F9fC3444f8101754aBC46c52416550D1

1- Adding liquidity (passed):

<https://testnet.bscscan.com/tx/0xc04d7bcbb844027f2ae33e0e0daa37fa3cbaa0758e03f8241652e2f4a55fb66b>

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

<https://testnet.bscscan.com/tx/0x1be4338df258e9d012adbebe330af1871e7aaddefff5f55a47303e49a9118a28>

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

<https://testnet.bscscan.com/tx/0xcba608e6f5383fff21b824814d747c2119ba2231c919b4d4bb513a69e9707cb2>

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

<https://testnet.bscscan.com/tx/0xef7100eb5a634b3a911a646c73e351b214ca905136b273e121682f9ca872264f>

5- Buying(0-6% tax) (passed):

<https://testnet.bscscan.com/tx/0x7da8f36a1054490cb3a754d3b48855e6246b995f723469cf2ca379ad31375c86>

6- Selling (0-6% tax) (passed):

<https://testnet.bscscan.com/tx/0x9a640ae39d86c52300827c27ae86481dd4c9e4ae30d35ec117030f9ae96ee4f3>



FUNCTIONAL TESTING

4- Transferring (0% tax) (passed):

<https://testnet.bscscan.com/tx/0x953cef0c7cce92ddc9298bdca6e3840691096e9691a964f2983016a733b80be3>

4- Internal swap (ETH sent to marketing wallet) (passed):

<https://testnet.bscscan.com/tx/0x9a640ae39d86c52300827c27ae86481dd4c9e4ae30d35ec117030f9ae96ee4f3>



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