auditace.tech

AuditAce
FROM INCEPTION TO SUCCESS

Smart Contract Audit

FOR

Bankp2pGold

DATED : 7 June 23'

High Risk Issues

Centralization – Excessive Fees

Severity: High

function: setAllFeePercent

Status: Open

Overview:

Owner is able to set buy/sell/transfer fees up to 60%

```
function setAllFeePercent(
    uint8 taxFee,
    uint8 liquidityFee,
    uint8 burnFee,
    uint8 marketingFee,
    uint8 devFee,
    uint8 rewardFee,
    uint8 extraSellFee
) external onlyOwner {
    uint8 _maxFee = 10;
    require(taxFee >= 0 && taxFee <= maxTaxFee, "TF err");
    require(liquidityFee >= 0 && liquidityFee <= maxLiqFee, "LF err");
    require(burnFee >= 0 && burnFee <= maxBurnFee, "BF err");
    require(extraSellFee >= 0 && extraSellFee <= maxExtraSellFee, "ESF err");
    require(marketingFee >= 0 && marketingFee <= _maxFee, "WF err");
    require(devFee >= 0 && devFee <= _maxFee, "WFT err");
    require(rewardFee >= 0 && rewardFee <= _maxFee, "RF err");
    //both tax fee and reward fee cannot be set
    require(rewardFee == 0 || taxFee == 0, "RT fee err");
    _walletFee = marketingFee;
    _walletDevFee = devFee;
    _rewardFee = rewardFee;
    _taxFee = taxFee;
    _liquidityFee = liquidityFee;
    _burnFee = burnFee;
    _extraSellFee = extraSellFee;
}
```

Suggestion

According to pinksale safu criteria, its suggested to have a limitation of max 10% for buy/sell/transfer fees (each one seperatly)

0 <= Buy Fees <= 10

0 <= Sell Fees <= 10

0 <= Transfer Fees <= 10

High Risk Issues

Configuration – Invalid reward tokens

Severity: High

function: setMarketingFeeToken - setDevFeeToken

Status: Open

Overview:

Owner is able to change marketing and dev reward tokens to any arbitrary address. Setting these addresses to an EOA, or an ERC20 token without liquidity on PCS V2 can disable sells.

```
function setMarketingFeeToken(address feeToken) external onlyOwner {
    marketingFeeToken = feeToken;
}

function setDevFeeToken(address feeToken) external onlyOwner {
    devFeeToken = feeToken;
}
```

Suggestion

Ensure that dev and marketing fee tokens are immutable

AUDIT SUMMARY

Project name – Bankp2pGold

Date: 7 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	2	1	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 done on BSC Test network, each test has its transaction has attached to it.

3- Slither : Static Analysis

Testnet Link: all tests were done using this contract, tests are done on BSC Testnet

https://testnet.bscscan.com/token/0x68C017806319B8214835AB8FcaDE455e65078178

Token Information

Token Name : Bankp2pGold

Token Symbol: Bankp2pGold

Decimals: 18

Token Supply:100,000,000

Token Address:
0x1E3B32643666565a787b312cBDFDac16B19EA161

Checksum:
0d0e6bc06f515a1ad622d942af16c4611db4d8b9

Owner: -
0x41f38Cc1Fb5D9E3b3D535827AD1C77f586F17796

Deployer:
0x41f38Cc1Fb5D9E3b3D535827AD1C77f586F17796

TOKEN OVERVIEW

Fees:

Buy Fees: 0-60%

Sell Fees: 0-60%

Transfer Fees: 0-60%

Fees Privilege: Owner

Ownership : Owned

Minting: No mint function

Max Tx Amount/ Max Wallet Amount: none

Blacklist: No

Other Privileges: - changing fees

- initial distribution of the tokens

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 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

- [x] Return values of low-level calls
- [x] Private modifier
- [x] Multiple Sends
- [x] Using Suicide
- [x] Gas Limitand Loops
- [x] Address hardcoded
- [x] Exception Disorder
- [x] Using inline assembly
- [x] Divide before multiply
- [x] Missing Zero Address Validation
- [x] Compiler version not fixed
- [x] **Gasless Send**
- [x] Using block.timestamp
- [x] Re-entrancy
- [x] Tautology or contradiction
- [x] Timestamp Dependence
- [x] Revert/require functions
- [x] Use of tx.origin
- [x] Integer overflow/underflow
- [x] Dangerous strict equalities
- [x] Using SHA3
- [x] 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	2
Medium-Risk	1
Low-Risk	0
Gas Optimization / Suggestions	0

CONTRACT ASSESMENT

Contract	Type	Bases		
└	**Function Name**	**Visibility**	**Mutability**	**Modifiers**
IERC20	Interface			
└	totalSupply	External ❗		NO ❗
└	balanceOf	External ❗		NO ❗
└	transfer	External ❗	🛑	NO ❗
└	allowance	External ❗		NO ❗
└	approve	External ❗	🛑	NO ❗
└	transferFrom	External ❗	🛑	NO ❗
SafeMath	Library			
└	add	Internal 🔒		
└	sub	Internal 🔒		
└	sub	Internal 🔒		
└	mul	Internal 🔒		
└	div	Internal 🔒		
└	div	Internal 🔒		
└	mod	Internal 🔒		
└	mod	Internal 🔒		
Context	Implementation			
└	_msgSender	Internal 🔒		
└	_msgData	Internal 🔒		
SafeMathInt	Library			
└	mul	Internal 🔒		
└	div	Internal 🔒		
└	sub	Internal 🔒		
└	add	Internal 🔒		
└	abs	Internal 🔒		
└	toUint256Safe	Internal 🔒		
SafeMathUint	Library			
└	toInt256Safe	Internal 🔒		
IterableMapping	Library			
└	get	Internal 🔒		
└	getIndexOfKey	Internal 🔒		
└	getKeyAtIndex	Internal 🔒		
└	size	Internal 🔒		

CONTRACT ASSESMENT

└	set	Internal 🔒	🔘	
└	remove	Internal 🔒	🔘	
Address	Library			
└	isContract	Internal 🔒		
└	sendValue	Internal 🔒	🔘	
└	functionCall	Internal 🔒	🔘	
└	functionCall	Internal 🔒	🔘	
└	functionCallWithValue	Internal 🔒	🔘	
└	functionCallWithValue	Internal 🔒	🔘	
└	_functionCallWithValue	Private 🔐	🔘	
SafeERC20	Library			
└	safeTransfer	Internal 🔒	🔘	
└	safeTransferFrom	Internal 🔒	🔘	
└	safeApprove	Internal 🔒	🔘	
└	safeIncreaseAllowance	Internal 🔒	🔘	
└	safeDecreaseAllowance	Internal 🔒	🔘	
└	_callOptionalReturn	Private 🔐	🔘	
Ownable	Implementation	Context		
└	<Constructor>	Public ❗	🔘	NO ❗
└	owner	Public ❗		NO ❗
└	renounceOwnership	Public ❗	🔘	onlyOwner
└	transferOwnership	Public ❗	🔘	onlyOwner
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 ❗
IUniswapV2Router01	Interface			
└	factory	External ❗		NO ❗
└	WETH	External ❗		NO ❗
└	addLiquidity	External ❗	🔘	NO ❗
└	addLiquidityETH	External ❗	💵	NO ❗
└	removeLiquidity	External ❗	🔘	NO ❗

CONTRACT ASSESMENT

└	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 ❗
ProToken	Implementation	Context, IERC20, Ownable		
└	<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 ❗
└	totalFees	Public ❗		NO ❗
└	deliver	Public ❗	🔘	NO ❗
└	reflectionFromToken	Public ❗		NO ❗
└	tokenFromReflection	Public ❗		NO ❗
└	excludeFromFee	Public ❗	🔘	onlyOwner
└	setAllFeePercent	External ❗	🔘	onlyOwner

CONTRACT ASSESMENT

└	setSwapAndLiquifyEnabled	Public ❗	🔘	onlyOwner
└	setSwapAmount	External ❗	🔘	onlyOwner
└	<Receive Ether>	External ❗	💸	NO ❗
└	_reflectFee	Private 🔐	🔘	
└	_getValues	Private 🔐		
└	_getTValues	Private 🔐		
└	_getRValues	Private 🔐		
└	_getRate	Private 🔐		
└	_getCurrentSupply	Private 🔐		
└	_takeLiquidity	Private 🔐	🔘	
└	calculateTaxFee	Private 🔐		
└	calculateLiquidityFee	Private 🔐		
└	removeAllFee	Private 🔐	🔘	
└	restoreAllFee	Private 🔐	🔘	
└	isExcludedFromFee	Public ❗		NO ❗
└	_approve	Private 🔐	🔘	
└	_transfer	Private 🔐	🔘	
└	swapAndLiquify	Private 🔐	🔘	lockTheSwap
└	swapTokensForBNB	Private 🔐	🔘	
└	swapBNBForTokens	Private 🔐	🔘	
└	swapTokensForFeeToken	Private 🔐	🔘	
└	addLiquidity	Private 🔐	🔘	
└	_tokenTransfer	Private 🔐	🔘	
└	_transferStandard	Private 🔐	🔘	
└	_transferToExcluded	Private 🔐	🔘	
└	_transferFromExcluded	Private 🔐	🔘	
└	_transferBothExcluded	Private 🔐	🔘	
└	_tokenTransferNoFee	Private 🔐	🔘	
└	transferEth	Private 🔐	🔘	
└	recoverFunds	External ❗	🔘	onlyOwner
└	recoverBEP20	External ❗	🔘	onlyOwner
└	sendTaxes	Internal 🔒	🔘	
└	process	Public ❗	🔘	NO ❗
└	processAccount	Internal 🔒	🔘	
└	excludeFromDividends	Public ❗	🔘	onlyOwner
└	canAutoClaim	Private 🔐		
└	dividendOf	Public ❗		NO ❗
└	withdrawableDividendOf	Public ❗		NO ❗
└	withdrawnDividendOf	Public ❗		NO ❗
└	accumulativeDividendOf	Public ❗		NO ❗
└	_withdrawDividendOfUser	Internal 🔒	🔘	

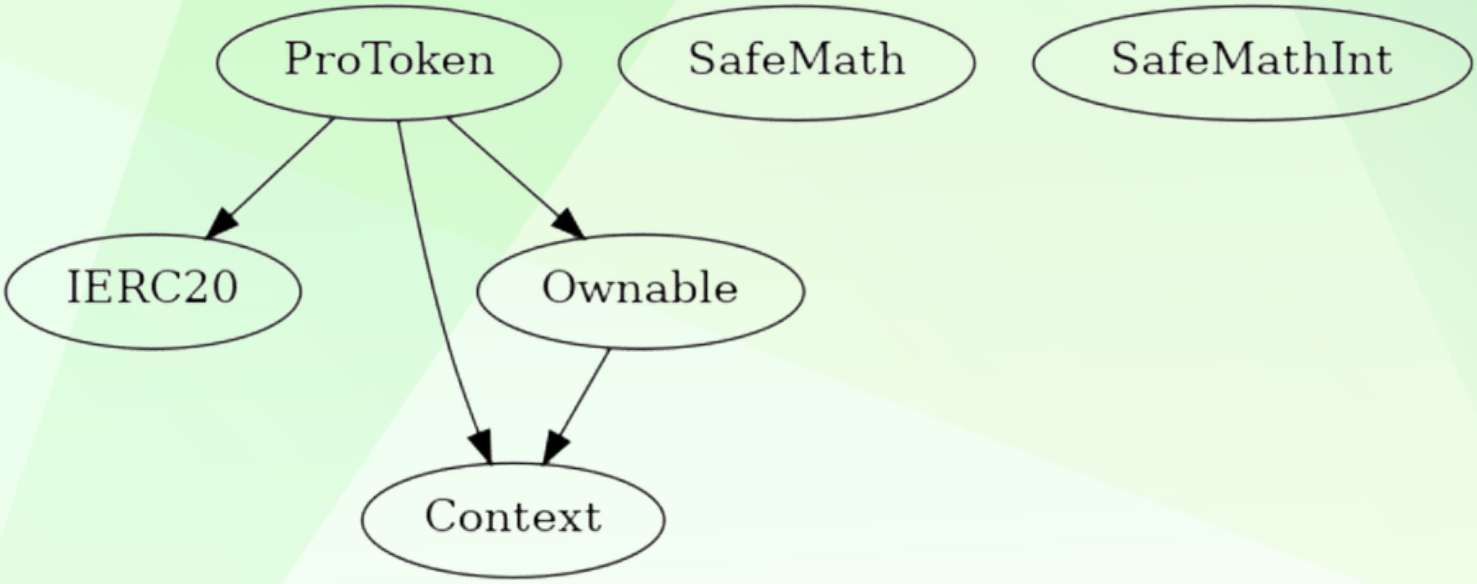
CONTRACT ASSESMENT

└	withdrawDividend	Public ❗	🛑	NO ❗
└	setMinimumTokenBalanceForDividends	External ❗	🛑	onlyOwner
└	excludeFromReward	Public ❗	🛑	onlyOwner
└	includeInReward	External ❗	🛑	onlyOwner
└	isExcludedFromReward	Public ❗		NO ❗
└	getNumberOfDividendTokenHolders	External ❗		NO ❗
└	processDividendTracker	External ❗	🛑	NO ❗
└	claim	External ❗	🛑	NO ❗
└	distributeDividends	Internal 🔒	🛑	
└	_dtransfer	Internal 🔒	🛑	
└	_dmint	Internal 🔒	🛑	
└	_dburn	Internal 🔒	🛑	
└	_setBalance	Internal 🔒	🛑	
└	setBalance	Private 🔐	🛑	
└	setFeeWallet	External ❗	🛑	onlyOwner
└	setMarketingFeeToken	External ❗	🛑	onlyOwner
└	setDevWallet	External ❗	🛑	onlyOwner
└	setDevFeeToken	External ❗	🛑	onlyOwner

Legend

Symbol	Meaning
🛑	Function can modify state
💵	Function is payable

INHERITANCE TREE



POINTS TO NOTE

- owner is able to change buy/sell/transfer taxes in range 0-60%
- owner is not able to blacklist an arbitrary wallet
- owner is not able to set limit for buy/sell/transfer/holding amounts
- owner is not able to mint new tokens
- owner is not able to disable trades

STATIC ANALYSIS

```
ProToken.slitherConstructorVariables() (contracts/Token.sol#872-2036) uses literals with too many digits:
        - gasForProcessing = 300000 (contracts/Token.sol#913)
Reference: https://github.com/crytic/slither/wiki/Detector-Documentation#too-many-digits

SafeMathInt.MAX_INT256 (contracts/Token.sol#251) is never used in SafeMathInt (contracts/Token.sol#249-306)
Reference: https://github.com/crytic/slither/wiki/Detector-Documentation#unused-state-variable

ProToken.claimWait (contracts/Token.sol#909) should be constant
ProToken.dead (contracts/Token.sol#880) should be constant
ProToken.gasForProcessing (contracts/Token.sol#913) should be constant
ProToken.isPaused (contracts/Token.sol#1006) should be constant
ProToken.maxBurnFee (contracts/Token.sol#884) should be constant
ProToken.maxBuybackFee (contracts/Token.sol#886) should be constant
ProToken.maxExtraSellFee (contracts/Token.sol#889) should be constant
ProToken.maxLiqFee (contracts/Token.sol#882) should be constant
ProToken.maxTaxFee (contracts/Token.sol#883) should be constant
ProToken.maxWalletFee (contracts/Token.sol#885) should be constant
ProToken.minMxTxPercentage (contracts/Token.sol#887) should be constant
ProToken.minMxWalletPercentage (contracts/Token.sol#888) should be constant
Reference: https://github.com/crytic/slither/wiki/Detector-Documentation#state-variables-that-could-be-declared-constant

ProToken._decimals (contracts/Token.sol#949) should be immutable
ProToken._maxTxAmount (contracts/Token.sol#997) should be immutable
ProToken._maxWalletAmount (contracts/Token.sol#998) should be immutable
ProToken._name (contracts/Token.sol#947) should be immutable
ProToken._symbol (contracts/Token.sol#948) should be immutable
ProToken._tTotal (contracts/Token.sol#943) should be immutable
ProToken.burnAutomaticGeneratedLiquidity (contracts/Token.sol#891) should be immutable
ProToken.buyBackUpperLimit (contracts/Token.sol#1000) should be immutable
ProToken.canBurn (contracts/Token.sol#1007) should be immutable
ProToken.canMint (contracts/Token.sol#1004) should be immutable
ProToken.canPause (contracts/Token.sol#1005) should be immutable
ProToken.charityFeeToken (contracts/Token.sol#991) should be immutable
ProToken.feeWalletCharity (contracts/Token.sol#983) should be immutable
ProToken.hasBlacklist (contracts/Token.sol#1003) should be immutable
ProToken.pcsV2Pair (contracts/Token.sol#981) should be immutable
ProToken.pcsV2Router (contracts/Token.sol#980) should be immutable
ProToken.rewardToken (contracts/Token.sol#940) should be immutable
ProToken.router (contracts/Token.sol#938) should be immutable
ProToken.walletCharityFeeInBNB (contracts/Token.sol#987) should be immutable
ProToken.walletDevFeeInBNB (contracts/Token.sol#988) should be immutable
ProToken.walletFeeInBNB (contracts/Token.sol#986) 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/0xbb27b530440f403157b51b2bebb6ae098045526ed85acf150de4d6cbf6ef9694

2- Buying when excluded from fees (0% tax) (passed):
https://testnet.bscscan.com/tx/0x5168826cb70dac37254bf19d775c28f68ab32f20a28836f462d4a4b599668425

3- Selling when excluded from fees (0% tax) (passed):
https://testnet.bscscan.com/tx/0xe2d95496e7ba5d4d60a6af9dc6f2a1ca36a2b9245c9347791bca575c1373d404

4- Transferring when excluded from fees (0% tax) (passed):
https://testnet.bscscan.com/tx/0xd35bf2c6cf8a18ec769d06a66569327ec86dfc95fed1ffe2d70fa42fe5fc8035

5- Buying when not excluded from fees (0-60% tax) (passed):
https://testnet.bscscan.com/tx/0x2e93b18a671974d4c923a47ef93f970526735c44cf9f07f86e47e45345fdfb68

6- Selling when not excluded from fees (0-60% tax) (passed):
https://testnet.bscscan.com/tx/0x80012523509 4de7bf41247bfe4ba64be7a39c5d7db7e2d4ff24b276def345b76

FUNCTIONAL TESTING

7- Transferring when not excluded from fees (0-60% tax) (passed):
https://testnet.bscscan.com/tx/0x614aef652e1f9e6bce707b89d5f0069cfa8aeeb2c54a7dd0dc9a02b394066175

8- Internal swap (passed):
https://testnet.bscscan.com/tx/0x800125235094de7bf41247bfe4ba64be7a39c5d7db7e2d4ff24b276def345b76

High Risk Issues

Centralization – Excessive Fees

Severity: High

function: setAllFeePercent

Status: Open

Overview:

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```
function setAllFeePercent(
    uint8 taxFee,
    uint8 liquidityFee,
    uint8 burnFee,
    uint8 marketingFee,
    uint8 devFee,
    uint8 rewardFee,
    uint8 extraSellFee
) external onlyOwner {
    uint8 _maxFee = 10;
    require(taxFee >= 0 && taxFee <= maxTaxFee, "TF err");
    require(liquidityFee >= 0 && liquidityFee <= maxLiqFee, "LF err");
    require(burnFee >= 0 && burnFee <= maxBurnFee, "BF err");
    require(extraSellFee >= 0 && extraSellFee <= maxExtraSellFee, "ESF err");
    require(marketingFee >= 0 && marketingFee <= _maxFee, "WF err");
    require(devFee >= 0 && devFee <= _maxFee, "WFT err");
    require(rewardFee >= 0 && rewardFee <= _maxFee, "RF err");
    //both tax fee and reward fee cannot be set
    require(rewardFee == 0 || taxFee == 0, "RT fee err");
    _walletFee = marketingFee;
    _walletDevFee = devFee;
    _rewardFee = rewardFee;
    _taxFee = taxFee;
    _liquidityFee = liquidityFee;
    _burnFee = burnFee;
    _extraSellFee = extraSellFee;
}
```

Suggestion

According to pinksale safu criteria, its suggested to have a limitation of max 10% for buy/sell/transfer fees (each one seperatly)

0 <= Buy Fees <= 10

0 <= Sell Fees <= 10

0 <= Transfer Fees <= 10

High Risk Issues

Configuration – Invalid reward tokens

Severity: High

function: setMarketingFeeToken - setDevFeeToken

Status: Open

Overview:

Owner is able to change marketing and dev reward tokens to any arbitrary address. Setting these addresses to an EOA, or an ERC20 token without liquidity on PCS V2 can disable sells.

```
function setMarketingFeeToken(address feeToken) external onlyOwner {
    marketingFeeToken = feeToken;
}

function setDevFeeToken(address feeToken) external onlyOwner {
    devFeeToken = feeToken;
}
```

Suggestion

Ensure that dev and marketing fee tokens are immutable

Medium Risk Issue

Centralization – EOA receiving auto-liquidity generated LP tokens

Severity: Medium

function: addLiquidity

Status: Open

Overview:

Auto-liquidity generated tokens are sent to an EOA (Externally owned account). This LP tokens can be used to remove a portoin of liquidity

```
function addLiquidity(uint256 tokenAmount, uint256 ethAmount) private {
    // approve token transfer to cover all possible scenarios
    _approve(address(this), address(pcsV2Router), tokenAmount);

    address liquidAddr = dead;

    if (!burnAutomaticGeneratedLiquidity) {
        liquidAddr = owner();
    }
    // add the liquidity
    pcsV2Router.addLiquidityETH{value: ethAmount}(
        address(this),
        tokenAmount,
        0, // slippage is unavoidable
        0, // slippage is unavoidable
        liquidAddr,
        block.timestamp
    );
}
```

Suggestion

Its suggested to Burn or Lock those new LP tokens.

DISCLAIMER

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ABOUT AUDITACE

We specializes in providing thorough and reliable audits for Web3 projects. With a team of experienced professionals, we use cutting-edge technology and rigorous methodologies to evaluate the security and integrity of blockchain systems. We are committed to helping our clients ensure the safety and transparency of their digital assets and transactions.

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