

CannaChain
Smart Contract
Audit Report





TABLE OF CONTENTS

| Audited Details

- Audited Project
- Blockchain
- Addresses
- Project Website
- Codebase

Summary

- Contract Summary
- Audit Findings Summary
- Vulnerabilities Summary

Conclusion

| Audit Results

Smart Contract Analysis

- Detected Vulnerabilities
- Disclaimer
- About Us



AUDITED DETAILS

| Audited Project

Project name	Token ticker	Blockchain	
CannaChain	CNC	BSC	

Addresses

Contract address	0xD8fB6deb6f2045AE5B5Ed91642a35abf9502D70D	
Contract deployer address	0x7E96d38F2DFE5FB6Afe9d8D7923CD66fD219D4C7	

Project Website

https://cannachain.cc/

Codebase

https://bscscan.com/address/0xD8fB6deb6f2045AE5B5Ed91642a35abf9502D70D#code



SUMMARY

CannaChain is the world's first blockchain engine for cannabis, intended to solve the industry's problems of banking and payments, provenance & fundraising by using blockchain solutions. CannaChain aims to deliver secure payments, data on-chain, asset tokenization, and a complete, legal, and closed-loop cannabis ecosystem.

Contract Summary

Documentation Quality

CannaChain provides a very good documentation with standard of solidity base code.

• The technical description is provided clearly and structured and also dont have any high risk issue.

Code Quality

The Overall quality of the basecode is standard.

• Standart solidity basecode and rules are already followed with CannaChain with the discovery of several low issues.

Test Coverage

Test coverage of the project is 100% (Through Codebase)

Audit Findings Summary

- SWC-101 | It is recommended to use vetted safe math libraries for arithmetic operations consistently on lines 286, 293, 301, 314, 316, 324, 325, 480, 487, 489, 490, 491, 548, 549, 555, 562, 563, 576, 602, 634, 647, 661, 662, 663, 664, 665, 666, 671, 692, 696, 697, 701, 704, 705, 712, 713, and 714.
- SWC-110 | It is recommended to use revert(), assert(), and require() in Solidity, and the new REVERT opcode in the EVM on lines 577, 577, 681, and 682.
- SWC-115 | tx.origin should not be used for authorization, use msg.sender instead on lines 634 and 635.
- SWC-120 | It is recommended to use external sources of randomness via oracles on lines 525, 634, 634, 635, and 636.



CONCLUSION

We have audited the Goge Coin which has released on January 2023 to discover issues and identify potential security vulnerabilities in Goge Project. This process is used to find bugs, technical issues, and security loopholes that find some common issues in the code.

The security audit report produced satisfactory results with a low risk issue on the contract project.

The most common issue found in writing code on contracts that do not pose a big risk, writing on contracts is close to the standard of writing contracts in general. Some of the low issues that were found assert violation, authorization through tx.origin, and weak sources of randomness. We recommended Don't use any of those environment variables as sources of randomness and being aware that the use of these variables introduces a certain level of trust in miners, aware Using "tx.origin" as a security control can lead to authorization bypass vulnerabilities. Consider using "msg.sender" unless you really know what you are doing or going to do.



AUDIT RESULT

Article	Category	Description	Result
Default Visibility	SWC-100 SWC-108	Functions and state variables visibility should be set explicitly. Visibility levels should be specified consciously.	PASS
Integer Overflow and Underflow	SWC-101	If unchecked math is used, all math operations should be safe from overflows and underflows.	ISSUE FOUND
Outdated Compiler Version	SWC-102	It is recommended to use a recent version of the Solidity compiler.	PASS
Floating Pragma	SWC-103	Contracts should be deployed with the same compiler version and flags that they have been tested thoroughly.	PASS
Unchecked Call Return Value	SWC-104	The return value of a message call should be checked.	PASS
SELFDESTRUCT Instruction	SWC-106	The contract should not be self-destructible while it has funds belonging to users.	PASS
Reentrancy	SWC-107	Check effect interaction pattern should be followed if the code performs recursive call.	PASS
Assert Violation	SWC-110	Properly functioning code should never reach a failing assert statement.	ISSUE FOUND
Deprecated Solidity Functions	SWC-111	Deprecated built-in functions should never be used.	PASS
Delegate call to Untrusted Caller	SWC-112	Delegatecalls should only be allowed to trusted addresses.	PASS
DoS (Denial of Service)	SWC-113 SWC-128	Execution of the code should never be blocked by a specific contract state unless required.	PASS
Race Conditions	SWC-114	Race Conditions and Transactions Order Dependency should not be possible.	PASS



Authorization through tx.origin	SWC-115	tx.origin should not be used for authorization.	ISSUE FOUND
Block values as a proxy for time	SWC-116	Block numbers should not be used for time calculations.	PASS
Signature Unique ID	SWC-117 SWC-121 SWC-122	Signed messages should always have a unique id. A transaction hash should not be used as a unique id.	PASS
Shadowing State Variable	SWC-119	SWC-119 State variables should not be shadowed.	
SWC-120		Random values should never be generated from Chain Attributes or be predictable.	ISSUE FOUND
Incorrect Inheritance Order		When inheriting multiple contracts, especially if they have identical functions, a developer should carefully specify inheritance in the correct order. The rule of thumb is to inherit contracts from more /general/ to more /specific/.	PASS



SMART CONTRACT ANALYSIS

Started	Sat Jan 14 2023 04:23:38 GMT+0000 (Coordinated Universal Time)		
Finished	Mon Jan 15 2023 05:13:30 GMT+0000 (Coordinated Universal Time)		
Mode	Standard		
Main Source File	CannaChain.sol		

Detected Issues

ID	Title	Severity	Status
SWC-101	ARITHMETIC OPERATION "-" DISCOVERED	low	acknowledged
SWC-101	ARITHMETIC OPERATION "+" DISCOVERED	low	acknowledged
SWC-101	ARITHMETIC OPERATION "-" DISCOVERED	low	acknowledged
SWC-101	ARITHMETIC OPERATION "-" DISCOVERED	low	acknowledged
SWC-101	ARITHMETIC OPERATION "+=" DISCOVERED	low	acknowledged
SWC-101	ARITHMETIC OPERATION "+=" DISCOVERED	low	acknowledged
SWC-101	ARITHMETIC OPERATION "+=" DISCOVERED	low	acknowledged
SWC-101	ARITHMETIC OPERATION "*" DISCOVERED	low	acknowledged
SWC-101	ARITHMETIC OPERATION "+" DISCOVERED	low	acknowledged
SWC-101	ARITHMETIC OPERATION "*" DISCOVERED	low	acknowledged
SWC-101	ARITHMETIC OPERATION "/" DISCOVERED	low	acknowledged
SWC-101	ARITHMETIC OPERATION "/" DISCOVERED	low	acknowledged
SWC-101	ARITHMETIC OPERATION "/" DISCOVERED	low	acknowledged
SWC-101	ARITHMETIC OPERATION "*" DISCOVERED	low	acknowledged



SWC-101	ARITHMETIC OPERATION "**" DISCOVERED	low	acknowledged
SWC-101	ARITHMETIC OPERATION "/" DISCOVERED	low	acknowledged
SWC-101	ARITHMETIC OPERATION "*" DISCOVERED	low	acknowledged
SWC-101	ARITHMETIC OPERATION "/" DISCOVERED	low	acknowledged
SWC-101	ARITHMETIC OPERATION "/" DISCOVERED	low	acknowledged
SWC-101	ARITHMETIC OPERATION "++" DISCOVERED	low	acknowledged
SWC-101	ARITHMETIC OPERATION "+" DISCOVERED	low	acknowledged
SWC-101	ARITHMETIC OPERATION "+" DISCOVERED	low	acknowledged
SWC-101	ARITHMETIC OPERATION "+" DISCOVERED	low	acknowledged
SWC-101	ARITHMETIC OPERATION "+" DISCOVERED	low	acknowledged
SWC-101	ARITHMETIC OPERATION "/" DISCOVERED	low	acknowledged
SWC-101	ARITHMETIC OPERATION "+=" DISCOVERED	low	acknowledged
SWC-101	ARITHMETIC OPERATION "+=" DISCOVERED	low	acknowledged
SWC-101	ARITHMETIC OPERATION "+=" DISCOVERED	low	acknowledged
SWC-101	ARITHMETIC OPERATION "+=" DISCOVERED	low	acknowledged
SWC-101	ARITHMETIC OPERATION "+=" DISCOVERED	low	acknowledged
SWC-101	ARITHMETIC OPERATION "-=" DISCOVERED	low	acknowledged
SWC-101	ARITHMETIC OPERATION "+" DISCOVERED	low	acknowledged



SWC-101	ARITHMETIC OPERATION "*" DISCOVERED	low	acknowledged
SWC-101	ARITHMETIC OPERATION "*" DISCOVERED	low	acknowledged
SWC-101	ARITHMETIC OPERATION "/" DISCOVERED	low	acknowledged
SWC-101	ARITHMETIC OPERATION "*" DISCOVERED	low	acknowledged
SWC-101	ARITHMETIC OPERATION "-=" DISCOVERED	low	acknowledged
SWC-101	ARITHMETIC OPERATION "-=" DISCOVERED	low	acknowledged
SWC-101	ARITHMETIC OPERATION "/" DISCOVERED	low	acknowledged
SWC-101	ARITHMETIC OPERATION "/" DISCOVERED	low	acknowledged
SWC-101	ARITHMETIC OPERATION "/" DISCOVERED	low	acknowledged
SWC-115	USE OF "TX.ORIGIN" AS A PART OF AUTHORIZATION CONTRO	DL. low	acknowledged
SWC-115	USE OF "TX.ORIGIN" AS A PART OF AUTHORIZATION CONTRO	DL. low	acknowledged
SWC-110	OUT OF BOUNDS ARRAY ACCESS	low	acknowledged
SWC-110	OUT OF BOUNDS ARRAY ACCESS	low	acknowledged
SWC-110	OUT OF BOUNDS ARRAY ACCESS	low	acknowledged
SWC-120	POTENTIAL USE OF "BLOCK.NUMBER" AS SOURCE OF RANDOMNESS.	low	acknowledged
SWC-120	POTENTIAL USE OF "BLOCK.NUMBER" AS SOURCE OF RANDOMNESS.	low	acknowledged
SWC-120	POTENTIAL USE OF "BLOCK.NUMBER" AS SOURCE OF RANDOMNESS.	low	acknowledged
SWC-120	POTENTIAL USE OF "BLOCK.NUMBER" AS SOURCE OF RANDOMNESS.	low	acknowledged



LINE 286

low SEVERITY

This plugin produces issues to support false positive discovery within mythril.

Source File

- CannaChain.sol

```
unchecked {
286    _approve(sender, _msgSender(), currentAllowance - amount);
287  }
288
289    return true;
290
```



LINE 293

low SEVERITY

This plugin produces issues to support false positive discovery within mythril.

Source File

- CannaChain.sol

```
function increaseAllowance(address spender, uint256 addedValue) public virtual
returns (bool) {
    _approve(_msgSender(), spender, _allowances[_msgSender()][spender] + addedValue);
    return true;
}
return true;
}
```



LINE 301

low SEVERITY

This plugin produces issues to support false positive discovery within mythril.

Source File

- CannaChain.sol

```
unchecked {
301    _approve(_msgSender(), spender, currentAllowance - subtractedValue);
302  }
303
304  return true;
305
```



LINE 314

low SEVERITY

This plugin produces issues to support false positive discovery within mythril.

Source File

- CannaChain.sol

```
313 unchecked {
314   _balances[sender] = senderBalance - amount;
315  }
316   _balances[recipient] += amount;
317
318
```



LINE 316

low SEVERITY

This plugin produces issues to support false positive discovery within mythril.

Source File

- CannaChain.sol

```
315  }
316  _balances[recipient] += amount;
317
318  emit Transfer(sender, recipient, amount);
319  }
320
```



LINE 324

low SEVERITY

This plugin produces issues to support false positive discovery within mythril.

Source File

- CannaChain.sol

```
323
324  _totalSupply += amount;
325  _balances[account] += amount;
326  emit Transfer(address(0), account, amount);
327 }
328
```



LINE 325

low SEVERITY

This plugin produces issues to support false positive discovery within mythril.

Source File

- CannaChain.sol

```
324  _totalSupply += amount;
325  _balances[account] += amount;
326  emit Transfer(address(0), account, amount);
327  }
328
329
```



LINE 480

low SEVERITY

This plugin produces issues to support false positive discovery within mythril.

Source File

- CannaChain.sol

```
479
480    uint256    totalSupply = 420_000 * 1e18;
481
482    sellMarketingFee = 300;
483    sellLiquidityFee = 100;
484
```



LINE 487

low SEVERITY

This plugin produces issues to support false positive discovery within mythril.

Source File

- CannaChain.sol

```
486 sellCannaFundFee = 200;

487 sellTotalFees = sellMarketingFee + sellLiquidityFee + sellTeamFee + sellBuyBackFee

+ sellCannaFundFee;

488

489 maxTxnAmount = totalSupply * 1 / 100;

490 maxWallet = totalSupply * 1 / 100;

491
```



LINE 489

low SEVERITY

This plugin produces issues to support false positive discovery within mythril.

Source File

- CannaChain.sol

```
488
489 maxTxnAmount = totalSupply * 1 / 100;
490 maxWallet = totalSupply * 1 / 100;
491 swapTokensAtAmount = totalSupply * 25 / 100000;
492
493
```



LINE 490

low SEVERITY

This plugin produces issues to support false positive discovery within mythril.

Source File

- CannaChain.sol

```
489 maxTxnAmount = totalSupply * 1 / 100;
490 maxWallet = totalSupply * 1 / 100;
491 swapTokensAtAmount = totalSupply * 25 / 100000;
492
493 //@dev update these!
494
```



LINE 491

low SEVERITY

This plugin produces issues to support false positive discovery within mythril.

Source File

- CannaChain.sol

```
490    maxWallet = totalSupply * 1 / 100;
491    swapTokensAtAmount = totalSupply * 25 / 100000;
492
493    //@dev update these!
494    marketingAddress = address(0x7c537E135A5B5E3d0E61C30118683f2F800443f3);
495
```



LINE 548

low SEVERITY

This plugin produces issues to support false positive discovery within mythril.

Source File

- CannaChain.sol

```
547 require(limitsInEffect, "Limits already lifted");
548 require(newNum >= (totalSupply() * 1 / 1000)/le18, "Cannot set max txn lower than
0.1%");
549 maxTxnAmount = newNum * (10**18);
550 emit UpdatedMaxTxnAmount(maxTxnAmount);
551 }
552
```



LINE 549

low SEVERITY

This plugin produces issues to support false positive discovery within mythril.

Source File

- CannaChain.sol

```
548 require(newNum >= (totalSupply() * 1 / 1000)/le18, "Cannot set max txn lower than
0.1%");
549 maxTxnAmount = newNum * (10**18);
550 emit UpdatedMaxTxnAmount(maxTxnAmount);
551 }
552
553
```



LINE 549

low SEVERITY

This plugin produces issues to support false positive discovery within mythril.

Source File

- CannaChain.sol

```
548 require(newNum >= (totalSupply() * 1 / 1000)/1e18, "Cannot set max txn lower than
0.1%");
549 maxTxnAmount = newNum * (10**18);
550 emit UpdatedMaxTxnAmount(maxTxnAmount);
551 }
552
553
```



LINE 555

low SEVERITY

This plugin produces issues to support false positive discovery within mythril.

Source File

- CannaChain.sol

```
require(limitsInEffect, "Limits already lifted");
require(newNum >= (totalSupply() * 1 / 100)/1e18, "Cannot set max txn lower than
1%");
maxWallet = newNum * (10**18);
emit UpdatedMaxWallet(maxTxnAmount);
}
```



LINE 556

low SEVERITY

This plugin produces issues to support false positive discovery within mythril.

Source File

- CannaChain.sol

```
555 require(newNum >= (totalSupply() * 1 / 100)/1e18, "Cannot set max txn lower than
1%");
556 maxWallet = newNum * (10**18);
557 emit UpdatedMaxWallet(maxTxnAmount);
558 }
559
560
```



LINE 562

low SEVERITY

This plugin produces issues to support false positive discovery within mythril.

Source File

- CannaChain.sol

```
function updateSwapTokensAtAmount(uint256 newAmount) external onlyOwner {
    require(newAmount >= totalSupply() * 1 / 100000, "Swap amount cannot be lower than
    0.001% total supply.");
    require(newAmount <= totalSupply() * 1 / 1000, "Swap amount cannot be higher than
    0.1% total supply.");
    swapTokensAtAmount = newAmount;
    emit SwapTokensAtAmountUpdated(newAmount);
    semit SwapTokensAtAmo
```



LINE 563

low SEVERITY

This plugin produces issues to support false positive discovery within mythril.

Source File

- CannaChain.sol

```
562 require(newAmount >= totalSupply() * 1 / 100000, "Swap amount cannot be lower than
0.001% total supply.");
563 require(newAmount <= totalSupply() * 1 / 1000, "Swap amount cannot be higher than
0.1% total supply.");
564 swapTokensAtAmount = newAmount;
565 emit SwapTokensAtAmountUpdated(newAmount);
566 }
567</pre>
```



LINE 576

low SEVERITY

This plugin produces issues to support false positive discovery within mythril.

Source File

- CannaChain.sol

```
575 require(wallets.length < 600, "Can only airdrop 600 wallets per txn due to gas
limits");
576 for(uint256 i = 0; i < wallets.length; i++){
577 super._transfer(msg.sender, wallets[i], amountsInTokens[i]);
578 }
579 }</pre>
```



LINE 602

low SEVERITY

This plugin produces issues to support false positive discovery within mythril.

Source File

- CannaChain.sol

```
601 sellCannaFundFee = _cannaFundFee;
602 sellTotalFees = sellMarketingFee + sellLiquidityFee + sellTeamFee + sellBuyBackFee
+ sellCannaFundFee;
603 require(sellTotalFees <= 2500, "Must keep sell fees at 25% or less");
604 emit UpdatedSellFee(sellTotalFees);
605 }
606</pre>
```



LINE 634

low SEVERITY

This plugin produces issues to support false positive discovery within mythril.

Source File

- CannaChain.sol

```
633  if (to != address(dexRouter) && to != address(lpPair)){
634   require(_holderLastTransferBlock[tx.origin] + 5 < block.number &&
   _holderLastTransferBlock[to] + 5 < block.number, "_transfer: Transfer Delay enabled.
Try again later.");
635   _holderLastTransferBlock[tx.origin] = block.number;
636   _holderLastTransferBlock[to] = block.number;
637  }
638</pre>
```



LINE 643

low SEVERITY

This plugin produces issues to support false positive discovery within mythril.

Source File

- CannaChain.sol

```
require(amount <= maxTxnAmount, "Max txn exceeded.");
require(amount + balanceOf(to) <= maxWallet, "Max Wallet Exceeded");
else if (automatedMarketMakerPairs[to] && !_isExcludedMaxTransactionAmount[from])
{
    require(amount <= maxTxnAmount, "Max txn exceeded.");
} else if (!_isExcludedMaxTransactionAmount[to]){
647</pre>
```



LINE 647

low SEVERITY

This plugin produces issues to support false positive discovery within mythril.

Source File

- CannaChain.sol

```
646  } else if (!_isExcludedMaxTransactionAmount[to]){
647  require(amount + balanceOf(to) <= maxWallet, "Max Wallet Exceeded");
648  }
649  }
650
651</pre>
```



LINE 661

low SEVERITY

This plugin produces issues to support false positive discovery within mythril.

Source File

- CannaChain.sol

```
if (automatedMarketMakerPairs[to] && sellTotalFees > 0){
    fees = amount * sellTotalFees / FEE_DIVISOR;
    tokensForLiquidity += fees * sellLiquidityFee / sellTotalFees;
    tokensForMarketing += fees * sellMarketingFee / sellTotalFees;
    tokensForTeam += fees * sellTeamFee / sellTotalFees;
    tokensForTeam += fees * sellTeamFee / sellTotalFees;
```



LINE 662

low SEVERITY

This plugin produces issues to support false positive discovery within mythril.

Source File

- CannaChain.sol

```
fees = amount * sellTotalFees / FEE_DIVISOR;

tokensForLiquidity += fees * sellLiquidityFee / sellTotalFees;

tokensForMarketing += fees * sellMarketingFee / sellTotalFees;

tokensForTeam += fees * sellTeamFee / sellTotalFees;

tokensForBuyBack += fees * sellBuyBackFee / sellTotalFees;

666
```



LINE 663

low SEVERITY

This plugin produces issues to support false positive discovery within mythril.

Source File

- CannaChain.sol

```
tokensForLiquidity += fees * sellLiquidityFee / sellTotalFees;
tokensForMarketing += fees * sellMarketingFee / sellTotalFees;
tokensForTeam += fees * sellTeamFee / sellTotalFees;
tokensForBuyBack += fees * sellBuyBackFee / sellTotalFees;
tokensForCannaFund += fees * sellCannaFundFee / sellTotalFees;
```



LINE 664

low SEVERITY

This plugin produces issues to support false positive discovery within mythril.

Source File

- CannaChain.sol

```
tokensForMarketing += fees * sellMarketingFee / sellTotalFees;
tokensForTeam += fees * sellTeamFee / sellTotalFees;
tokensForBuyBack += fees * sellBuyBackFee / sellTotalFees;
tokensForCannaFund += fees * sellCannaFundFee / sellTotalFees;
}
```



LINE 665

low SEVERITY

This plugin produces issues to support false positive discovery within mythril.

Source File

- CannaChain.sol

```
tokensForTeam += fees * sellTeamFee / sellTotalFees;
tokensForBuyBack += fees * sellBuyBackFee / sellTotalFees;
tokensForCannaFund += fees * sellCannaFundFee / sellTotalFees;
}
667 }
668
669
```



LINE 666

low SEVERITY

This plugin produces issues to support false positive discovery within mythril.

Source File

- CannaChain.sol

```
tokensForBuyBack += fees * sellBuyBackFee / sellTotalFees;
tokensForCannaFund += fees * sellCannaFundFee / sellTotalFees;

667 }
668
669 if(fees > 0){
670
```



LINE 671

low SEVERITY

This plugin produces issues to support false positive discovery within mythril.

Source File

- CannaChain.sol

```
670    super._transfer(from, address(this), fees);
671    amount -= fees;
672    }
673
674    super._transfer(from, to, amount);
675
```



LINE 692

low SEVERITY

This plugin produces issues to support false positive discovery within mythril.

Source File

- CannaChain.sol

```
691  uint256 contractBalance = balanceOf(address(this));
692  uint256 totalTokensToSwap = tokensForTeam + tokensForMarketing + tokensForLiquidity
+ tokensForBuyBack + tokensForCannaFund;
693
694  if(contractBalance == 0 || totalTokensToSwap == 0) {return;}
695
696
```



LINE 696

low SEVERITY

This plugin produces issues to support false positive discovery within mythril.

Source File

- CannaChain.sol

```
695
696 if(contractBalance > swapTokensAtAmount * 60){
697  contractBalance = swapTokensAtAmount * 60;
698  }
699
700
```



LINE 697

low SEVERITY

This plugin produces issues to support false positive discovery within mythril.

Source File

- CannaChain.sol

```
if(contractBalance > swapTokensAtAmount * 60){
697   contractBalance = swapTokensAtAmount * 60;
698  }
699
700   if(tokensForLiquidity > 0){
701
```



LINE 701

low SEVERITY

This plugin produces issues to support false positive discovery within mythril.

Source File

- CannaChain.sol

```
if(tokensForLiquidity > 0){
    uint256 liquidityTokens = contractBalance * tokensForLiquidity / totalTokensToSwap;
    super._transfer(address(this), lpPair, liquidityTokens);
    try ILpPair(lpPair).sync(){} catch {}
    contractBalance -= liquidityTokens;
}
```



LINE 701

low SEVERITY

This plugin produces issues to support false positive discovery within mythril.

Source File

- CannaChain.sol

```
if(tokensForLiquidity > 0){
    uint256 liquidityTokens = contractBalance * tokensForLiquidity / totalTokensToSwap;
    super._transfer(address(this), lpPair, liquidityTokens);
    try ILpPair(lpPair).sync(){} catch {}
    contractBalance -= liquidityTokens;
}
```



LINE 704

low SEVERITY

This plugin produces issues to support false positive discovery within mythril.

Source File

- CannaChain.sol

```
try ILpPair(lpPair).sync(){} catch {}

contractBalance -= liquidityTokens;

totalTokensToSwap -= tokensForLiquidity;

}

706 }

707

708
```



LINE 705

low SEVERITY

This plugin produces issues to support false positive discovery within mythril.

Source File

- CannaChain.sol

```
704 contractBalance -= liquidityTokens;
705 totalTokensToSwap -= tokensForLiquidity;
706 }
707
708 swapTokensForEth(contractBalance);
709
```



LINE 712

low SEVERITY

This plugin produces issues to support false positive discovery within mythril.

Source File

- CannaChain.sol

```
711
712 uint256 ethForMarketing = ethBalance * tokensForMarketing / totalTokensToSwap;
713 uint256 ethForBuyBack = ethBalance * tokensForBuyBack / totalTokensToSwap;
714 uint256 ethForCannaFund = ethBalance * tokensForCannaFund / totalTokensToSwap;
715
716
```



LINE 713

low SEVERITY

This plugin produces issues to support false positive discovery within mythril.

Source File

- CannaChain.sol

```
vuint256 ethForMarketing = ethBalance * tokensForMarketing / totalTokensToSwap;
uint256 ethForBuyBack = ethBalance * tokensForBuyBack / totalTokensToSwap;
uint256 ethForCannaFund = ethBalance * tokensForCannaFund / totalTokensToSwap;
tokensForTeam = 0;
```



LINE 714

low SEVERITY

This plugin produces issues to support false positive discovery within mythril.

Source File

- CannaChain.sol

```
uint256 ethForBuyBack = ethBalance * tokensForBuyBack / totalTokensToSwap;
uint256 ethForCannaFund = ethBalance * tokensForCannaFund / totalTokensToSwap;

tokensForTeam = 0;
tokensForMarketing = 0;
```



SWC-115 | USE OF "TX.ORIGIN" AS A PART OF AUTHORIZATION CONTROL.

LINE 634

low SEVERITY

The tx.origin environment variable has been found to influence a control flow decision. Note that using "tx.origin" as a security control might cause a situation where a user inadvertently authorizes a smart contract to perform an action on their behalf. It is recommended to use "msg.sender" instead.

Source File

- CannaChain.sol

```
if (to != address(dexRouter) && to != address(lpPair)){
   require(_holderLastTransferBlock[tx.origin] + 5 < block.number &&
   _holderLastTransferBlock[to] + 5 < block.number, "_transfer: Transfer Delay enabled.
Try again later.");
   _holderLastTransferBlock[tx.origin] = block.number;
   _holderLastTransferBlock[to] = block.number;
   _holderLastTransferBlock[to] = block.number;
}
</pre>
```



SWC-115 | USE OF "TX.ORIGIN" AS A PART OF AUTHORIZATION CONTROL.

LINE 635

low SEVERITY

Using "tx.origin" as a security control can lead to authorization bypass vulnerabilities. Consider using "msg.sender" unless you really know what you are doing.

Source File

- CannaChain.sol

```
634    require(_holderLastTransferBlock[tx.origin] + 5 < block.number &&
    _holderLastTransferBlock[to] + 5 < block.number, "_transfer:: Transfer Delay enabled.
Try again later.");
635    _holderLastTransferBlock[tx.origin] = block.number;
636    _holderLastTransferBlock[to] = block.number;
637  }
638 }
639</pre>
```



SWC-110 | OUT OF BOUNDS ARRAY ACCESS

LINE 577

low SEVERITY

The index access expression can cause an exception in case of use of invalid array index value.

Source File

- CannaChain.sol

```
576    for(uint256 i = 0; i < wallets.length; i++){
577        super._transfer(msg.sender, wallets[i], amountsInTokens[i]);
578    }
579    }
580
581</pre>
```



SWC-110 | OUT OF BOUNDS ARRAY ACCESS

LINE 681

low SEVERITY

The index access expression can cause an exception in case of use of invalid array index value.

Source File

- CannaChain.sol

```
address[] memory path = new address[](2);
path[0] = address(this);

path[1] = dexRouter.WETH();

83
684  // make the swap
685
```



SWC-110 | OUT OF BOUNDS ARRAY ACCESS

LINE 682

low SEVERITY

The index access expression can cause an exception in case of use of invalid array index value.

Source File

- CannaChain.sol

```
681 path[0] = address(this);
682 path[1] = dexRouter.WETH();
683
684  // make the swap
685  dexRouter.swapExactTokensForETHSupportingFeeOnTransferTokens(tokenAmount, 0, path, address(this), block.timestamp);
686
```



LINE 525

low SEVERITY

The environment variable "block.number" looks like it might be used as a source of randomness. Note that the values of variables like coinbase, gaslimit, block number and timestamp are predictable and can be manipulated by a malicious miner. Also keep in mind that attackers know hashes of earlier blocks. Don't use any of those environment variables as sources of randomness and be aware that use of these variables introduces a certain level of trust into miners.

Source File

- CannaChain.sol

```
524 swapEnabled = true;
525 tradingActiveBlock = block.number;
526 emit EnabledTrading();
527 }
```



LINE 634

low SEVERITY

The environment variable "block.number" looks like it might be used as a source of randomness. Note that the values of variables like coinbase, gaslimit, block number and timestamp are predictable and can be manipulated by a malicious miner. Also keep in mind that attackers know hashes of earlier blocks. Don't use any of those environment variables as sources of randomness and be aware that use of these variables introduces a certain level of trust into miners.

Source File

- CannaChain.sol

```
633  if (to != address(dexRouter) && to != address(lpPair)){
634   require(_holderLastTransferBlock[tx.origin] + 5 < block.number &&
   _holderLastTransferBlock[to] + 5 < block.number, "_transfer: Transfer Delay enabled.
Try again later.");
635   _holderLastTransferBlock[tx.origin] = block.number;
636   _holderLastTransferBlock[to] = block.number;
637  }</pre>
```



LINE 635

low SEVERITY

The environment variable "block.number" looks like it might be used as a source of randomness. Note that the values of variables like coinbase, gaslimit, block number and timestamp are predictable and can be manipulated by a malicious miner. Also keep in mind that attackers know hashes of earlier blocks. Don't use any of those environment variables as sources of randomness and be aware that use of these variables introduces a certain level of trust into miners.

Source File

- CannaChain.sol

```
634 require(_holderLastTransferBlock[tx.origin] + 5 < block.number &&
   _holderLastTransferBlock[to] + 5 < block.number, "_transfer: Transfer Delay enabled.
Try again later.");
635   _holderLastTransferBlock[tx.origin] = block.number;
636   _holderLastTransferBlock[to] = block.number;
637  }
638 }</pre>
```



LINE 636

low SEVERITY

The environment variable "block.number" looks like it might be used as a source of randomness. Note that the values of variables like coinbase, gaslimit, block number and timestamp are predictable and can be manipulated by a malicious miner. Also keep in mind that attackers know hashes of earlier blocks. Don't use any of those environment variables as sources of randomness and be aware that use of these variables introduces a certain level of trust into miners.

Source File

- CannaChain.sol

```
635  _holderLastTransferBlock[tx.origin] = block.number;
636  _holderLastTransferBlock[to] = block.number;
637  }
638 }
```



DISCLAIMER

This report is subject to the terms and conditions (including without limitation, description of services, confidentiality, disclaimer and limitation of liability) set forth in the Services Agreement, or the scope of services, and terms and conditions provided to you ("Customer" or the "Company") in connection with the Agreement. This report provided in connection with the Services set forth in the Agreement shall be used by the Company only to the extent permitted under the terms and conditions set forth in the Agreement. This report may not be transmitted, disclosed, referred to, or relied upon by any person for any purposes, nor may copies be delivered to any other person other than the Company, without Sysfixed's prior written consent in each instance.

This report is not, nor should be considered, an "endorsement" or "disapproval" of any particular project or team. This report is not, nor should be considered, an indication of the economics or value of any "product" or "asset" created by any team or project that contracts Sysfixed to perform a security assessment. This report does not provide any warranty or guarantee regarding the absolute bug-free nature of the technology analyzed, nor do they provide any indication of the technologies proprietors, business, business model, or legal compliance.

This is a limited report on our findings based on our analysis, in accordance with good industry practice as of the date of this report, in relation to cybersecurity vulnerabilities and issues in the framework and algorithms based on smart contracts, the details of which are set out in this report. In order to get a full view of our analysis, it is crucial for you to read the full report. While we have done our best in conducting our analysis and producing this report, it is important to note that you should not rely on this report and cannot claim against us on the basis of what it says or doesn't say, or how we produced it, and it is important for you to conduct your own independent investigations before making any decisions. We go into more detail on this in the below disclaimer below – please make sure to read it in full.

This report should not be used in any way to make decisions around investment or involvement with any particular project. This report in no way provides investment advice, nor should be leveraged as investment advice of any sort. This report represents an extensive assessing process intending to help our customers increase the quality of their code while reducing the high level of risk presented by cryptographic tokens and blockchain technology.

This report is provided for information purposes only and on a non-reliance basis and does not constitute investment advice. No one shall have any right to rely on the report or its contents, and Sysfixed and its affiliates (including holding companies, shareholders, subsidiaries, employees, directors, officers, and other representatives) (Sysfixed) owe no duty of care.



ABOUT US

Sysfixed is a blockchain security certification organization established in 2021 with the objective to provide smart contract security services and verify their correctness in blockchain-based protocols. Sysfixed automatically scans for security vulnerabilities in Ethereum and other EVM-based blockchain smart contracts. Sysfixed a comprehensive range of analysis techniques—including static analysis, dynamic analysis, and symbolic execution—can accurately detect security vulnerabilities to provide an in-depth analysis report. With a vibrant ecosystem of world-class integration partners that amplify developer productivity, Sysfixed can be utilized in all phases of your project's lifecycle. Our team of security experts is dedicated to the research and improvement of our tools and techniques used to fortify your code.