



Smart Contract Security Audit

<u>TechRate</u> October, 2021

Audit Details



Audited project

WealthSecrets



Deployer address

0xd1e78c9d59746c4f9673038b45faa999e586ab75



Client contacts:

WealthSecrets team



Blockchain

Binance Smart Chain





Disclaimer

This is a limited report on our findings based on our analysis, in accordance with good industry practice as at 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.

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The analysis of the security is purely based on the smart contracts alone. No applications or operations were reviewed for security. No product code has been reviewed.

Background

TechRate was commissioned by WealthSecrets to perform an audit of smart contracts:

 $\frac{https://bscscan.com/address/0xdd8fe0d0bb8008145efd8ae0968f522bf328ae96\#code}{e}$

The purpose of the audit was to achieve the following:

- Ensure that the smart contract functions as intended.
- Identify potential security issues with the smart contract.

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The information in this report should be used to understand the risk exposure of the smart contract, and as a guide to improve the security posture of the smart contract by remediating the issues that were identified.

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Contracts Details

Token contract details for 09.10.2021

Contract name	WealthSecrets	
Contract address	0xdd8FE0d0bB8008145eFd8Ae0968f522BF328ae96	
Total supply	27,000,000,000	
Token ticker	WSC	
Decimals	18	
Token holders	27	
Transactions count	29	
Top 100 holders dominance	100.00%	
Liquidity fee	3	
Tax fee	2	
Total fees	130200000000000000000	
PCS V2 pair	0xb77eed048b0078b4dbab1bb6a8e014da289abb46	
Contract deployer address	0xd1e78c9d59746c4f9673038b45faa999e586ab75	
Contract's current owner address	0x01d3395e528eb388bbaedf291b508adde4865e2f	

WealthSecrets Token Distribution

The top 100 holders collectively own 100.00% (26,999,921,952.84 Tokens) of WealthSecrets

☐ Token Total Supply: 27,000,000,000.00 Token I Total Token Holders: 27



(A total of 26,999,921,952.84 tokens held by the top 100 accounts from the total supply of 27,000,000,000.00 token)

WealthSecrets Contract Interaction Details

Token Contract Oxdd8fe0d0bb8008145efd8ae0968f522bf328ae96 (WealthSecrets)
Source: BscScan.com

From Sep 6, 2021 To Oct 7, 2021

16

246

86

88

10. Sep 10. Sep 12. Sep 14. Sep 18. Sep 20. Sep 22. Sep 24. Sep 26. Sep 28. Sep 30. Sep 2. Oct 4. Oct 6. Oct

132-Sep 20. Sep 20. Sep 27. Sep 44. Oct

WealthSecrets Top 10 Token Holders

Rank	Address	Quantity (Token)	Percentage
1	0x01d3395e528eb388bbaedf291b508adde4865e2f	15,839,447,073.362709372602006942	58.6646%
2	0x7473c25030d3c6e2bb91785f046f953f42ea58ee	2,700,000,000	10.0000%
3	0x8dd8d7ced75928aaac773adb64413e024af348fb	2,700,000,000	10.0000%
4	0x2e1068617bc5831b10093d179253ecb75606007f	2,700,000,000	10.0000%
5	₫ 0x81e0ef68e103ee65002d3cf766240ed1c070334d	2,159,999,999.9999997	8.0000%
6	0x27af71c9bb3f18730e3e4baf69d628382e43c15d	158,347,031.9	0.5865%
7	0xb29b12617efa21eea376f43709cc2022e34de747	147,443,924.009217721488309423	0.5461%
8	0x400cd86b51e7af51ed9fff8751b38f181093cd08	125,789,573.959009323518310507	0.4659%
9	0x12a5a73fab370c2bad006c20a80ec6e721444584	70,586,650	0.2614%
10	0x36d537ab822bec6f1cba337fef9ef47ce5982ad7	60,606,874.13	0.2245%

Contract functions details

+ [Int] IERC20 - [Ext] totalSupply - [Ext] balanceOf - [Ext] transfer # - [Ext] allowance - [Ext] approve # - [Ext] transferFrom # + [Lib] SafeMath - [Int] add - [Int] sub - [Int] sub - [Int] mul - [Int] div - [Int] div - [Int] mod - [Int] mod + Context - [Int] _msgSender - [Int] _msgData + [Lib] Address - [Int] isContract - [Int] sendValue # - [Int] functionCall # - [Int] functionCall # - [Int] functionCallWithValue # - [Int] functionCallWithValue # - [Prv] functionCallWithValue # + [Lib] SafeERC20 - [Int] safeTransfer # - [Int] safeTransferFrom # - [Int] safeApprove # - [Int] safeIncreaseAllowance # - [Int] safeDecreaseAllowance # - [Prv] callOptionalReturn # + Ownable (Context) - [Pub] <Constructor> # - [Pub] owner - [Pub] renounceOwnership # - modifiers: onlyOwner - [Pub] transferOwnership # - modifiers: onlyOwner - [Pub] geUnlockTime - [Pub] lock # - modifiers: onlyOwner

- [Pub] unlock #

+ [Int] | UniswapV2Factory - [Ext] feeTo - [Ext] feeToSetter - [Ext] getPair - [Ext] allPairs - [Ext] allPairsLength - [Ext] createPair # - [Ext] setFeeTo # - [Ext] setFeeToSetter # + [Int] IUniswapV2Router01 - [Ext] factory - [Ext] WETH - [Ext] addLiquidity # - [Ext] addLiquidityETH (\$) - [Ext] removeLiquidity # - [Ext] removeLiquidityETH # - [Ext] removeLiquidityWithPermit # - [Ext] removeLiquidityETHWithPermit # - [Ext] swapExactTokensForTokens # - [Ext] swapTokensForExactTokens # - [Ext] swapExactETHForTokens (\$) - [Ext] swapTokensForExactETH # - [Ext] swapExactTokensForETH # - [Ext] swapETHForExactTokens (\$) - [Ext] quote - [Ext] getAmountOut - [Ext] getAmountIn - [Ext] getAmountsOut - [Ext] getAmountsIn + [Int] IUniswapV2Router02 (IUniswapV2Router01) - [Ext] removeLiquidityETHSupportingFeeOnTransferTokens # - [Ext] removeLiquidityETHWithPermitSupportingFeeOnTransferTokens # - [Ext] swapExactTokensForTokensSupportingFeeOnTransferTokens # - [Ext] swapExactETHForTokensSupportingFeeOnTransferTokens (\$) - [Ext] swapExactTokensForETHSupportingFeeOnTransferTokens # + Token (Context, IERC20, Ownable) - [Pub] <Constructor># - [Pub] name - [Pub] symbol - [Pub] decimals - [Pub] totalSupply - [Pub] balanceOf - [Pub] transfer # - [Pub] allowance - [Pub] approve # - [Pub] transferFrom # - [Pub] increaseAllowance # - [Pub] decreaseAllowance # - [Pub] isExcludedFromReward - [Pub] totalFees

- [Pub] deliver #

- [Pub] reflectionFromToken

```
- [Pub] tokenFromReflection
- [Pub] excludeFromReward #
 - modifiers: onlyOwner
- [Ext] includeInReward #
 - modifiers: onlyOwner
- [Pub] excludeFromFee #
 - modifiers: onlyOwner
- [Pub] includeInFee #
 - modifiers: onlyOwner
- [Ext] setAllFeePercent #
 - modifiers: onlyOwner
- [Pub] buyBackUpperLimitAmount
- [Ext] setBuybackUpperLimit #
 - modifiers: onlyOwner
- [Ext] setMaxTxPercent #
 - modifiers: onlyOwner
- [Ext] setMaxWalletPercent #
 - modifiers: onlyOwner
- [Pub] setSwapAndLiquifyEnabled #
 - modifiers: onlyOwner
- [Ext] setFeeWallet#
 - modifiers: onlyOwner
- [Ext] <Fallback> ($)
- [Prv] _reflectFee #
- [Prv] _getValues
- [Prv] _getTValues
- [Prv] getRValues
- [Prv] _getRate
- [Prv] _getCurrentSupply
- [Prv] takeLiquidity #
- [Prv] calculateTaxFee
- [Prv] calculateLiquidityFee
- [Prv] removeAllFee #
- [Prv] restoreAllFee #
- [Pub] isExcludedFromFee
- [Prv] _approve #
- [Prv] _transfer #
- [Prv] swapAndLiquify #
 - modifiers: lockTheSwap
- [Prv] buyBackTokens #
 - modifiers: lockTheSwap
- [Prv] swapTokensForBNB #
- [Prv] swapBNBForTokens #
- [Prv] addLiquidity #
- [Prv] _tokenTransfer #
- [Prv] transferStandard #
- [Prv] _transferToExcluded #
- [Prv] transferFromExcluded #
- [Prv] _transferBothExcluded #
- [Prv] tokenTransferNoFee #
- [Pub] recoverBEP20 #
 - modifiers: onlyOwner
```

(\$) = payable function # = non-constant function

Issues Checking Status

Issue description	Checking status
1. Compiler errors.	Passed
2. Race conditions and Reentrancy. Cross-function race conditions.	Passed
3. Possible delays in data delivery.	Passed
4. Oracle calls.	Passed
5. Front running.	Passed
6. Timestamp dependence.	Passed
7. Integer Overflow and Underflow.	Passed
8. DoS with Revert.	Passed
9. DoS with block gas limit.	Low issues
10. Methods execution permissions.	Passed
11. Economy model of the contract.	Passed
12. The impact of the exchange rate on the logic.	Passed
13. Private user data leaks.	Passed
14. Malicious Event log.	Passed
15. Scoping and Declarations.	Passed
16. Uninitialized storage pointers.	Passed
17. Arithmetic accuracy.	Passed
18. Design Logic.	Passed
19. Cross-function race conditions.	Passed
20. Safe Open Zeppelin contracts implementation and usage.	Passed
21. Fallback function security.	Passed

Security Issues

High Severity Issues

No high severity issues found.

No medium severity issues found.

- Low Severity Issues
 - 1. Out of gas

Issue:

 The function includeInReward() uses the loop to find and remove addresses from the _excluded list. Function will be aborted with OUT_OF_GAS exception if there will be a long excluded addresses list.

 The function _getCurrentSupply also uses the loop for evaluating total supply. It also could be aborted with OUT_OF_GAS exception if there will be a long excluded addresses list.

Recommendation:

Check that the excluded array length is not too big.

Notes:

 There is sending contract balance to dead address instead of real burn, using decreasing total supply.

Owner privileges (In the period when the owner is not renounced)

• Owner can change fees.

```
ftrace | function setAllFeePercent(uint8 taxFee↑, uint8 liquidityFee↑, uint8 burnFee↑, uint8 walletFee↑, uint8 buybackFee↑) external onlyOwner() {
    require(taxFee↑ >= 0 && taxFee↑ <=maxTaxFee,"TF err");
    require(liquidityFee↑ >= 0 && liquidityFee↑ <=maxLiqFee,"LF err");
    require(burnFee↑ >= 0 && walletFee↑ <=maxBurnFee,"BF err");
    require(walletFee↑ >= 0 && walletFee↑ <=maxWalletFee,"WF err");
    require(buybackFee↑ >= 0 && buybackFee↑ <=maxBuybackFee,"BBF err");
    taxFee = taxFee↑;
    liquidityFee = liquidityFee↑;
    burnFee = burnFee↑;
    buybackFee = buybackFee↑;
    walletFee = walletFee↑;
}</pre>
```

Owner can change the maximum transaction amount and maximum wallet amount.

Owner can change buyBackUpperLimit.

```
ftrace|funcSig
function setBuybackUpperLimit(uint256 buyBackLimit 1) external onlyOwner() {
    buyBackUpperLimit = buyBackLimit 1 * 10**18;
}
```

Owner can exclude from the fee.

```
function excludeFromFee(address account1) public onlyOwner {
        isExcludedFromFee[account1] = true;
}
```

Owner can change fee wallet.

```
ftrace|funcSig
function setFeeWallet(address payable newFeeWallet1) external onlyOwner {
    require(newFeeWallet1 != address(0), "ZERO ADDRESS");
    feeWallet = newFeeWallet1;
}
```

Owner can withdraw ERC tokens except native.

```
ftrace|funcSig
function recoverBEP20(address tokenAddress1, uint256 tokenAmount1) public onlyOwner {
    // do not allow recovering self token
    require(tokenAddress1 != address(this), "Self withdraw");
    IERC20(tokenAddress1).transfer(owner(), tokenAmount1);
}
```

 Owner can lock and unlock. By the way, using these functions the owner could retake privileges even after the ownership was renounced.

```
//Locks the contract for owner for the amount of time provided
function lock(uint256 time) public virtual onlyOwner {
    _previousOwner = _owner;
    _owner = address(0);
    _lockTime = now + time;
    emit OwnershipTransferred(_owner, address(0));
}

//Unlocks the contract for owner when _lockTime is exceeds
function unlock() public virtual {
    require(_previousOwner == msg.sender, "You don't have permission to unlock");
    require(now > _lockTime , "Contract is locked until 7 days");
    emit OwnershipTransferred(_owner, _previousOwner);
    _owner = _previousOwner;
}
```

Conclusion

Smart contracts contain low severity issues! Liquidity pair contract's security is not checked due to out of scope.

Liquidity locking details provided by the team: https://dxsale.app/app/v3/dxlockview?id=0&add=0x01D3395E528Eb 388BbaEdf291B508aDdE4865e2F&type=tokenlock&chain=BSC

TechRate note:

Please check the disclaimer above and note, the audit makes no statements or warranties on business model, investment attractiveness or code sustainability. The report is provided for the only contract mentioned in the report and does not include any other potential contracts deployed by Owner.

