



**TechRate**  
AUDIT COMPANY

# Smart Contract Security Audit

TechRate

November, 2021

# Audit Details



Audited project

**Official Crypto Cowboy Token**



Deployer address

**0x47db1e963bef74ee554ce2c0175d4715a29ef0de**



Client contacts:

**Official Crypto Cowboy Token team**



Blockchain

**Ethereum**



Project website:

**<https://officialcryptocowboy.ca/>**

# 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 Official Crypto Cowboy Token to perform an audit of smart contracts:

<https://etherscan.io/address/0x95a1796437bad6502d1c1cce165cd76e522409a9#code>

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.

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.

# Contracts Details

## Token contract details for 25.11.2021

Contract name	Official Crypto Cowboy Token
Contract address	0x95A1796437BAd6502d1c1cce165Cd76E522409a9
Total supply	100,000,000,000,000,000
Token ticker	OCCT
Decimals	18
Token holders	1,775
Transactions count	15,166
Top 100 holders dominance	94.57%
Liquidity fee	0
Tax fee	1
Total fees	294932301048140626919829073898257
Uniswap V2 pair	0xf27fb8b8113f5e10b5fa91ad3fa033173f0b14e1
Contract deployer address	0x47db1e963bef74ee554ce2c0175d4715a29ef0de
Contract's current owner address	0x00

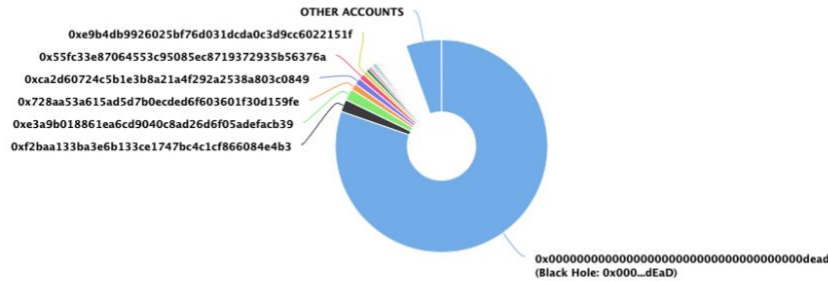
# Official Crypto Cowboy Token Token Distribution

The top 100 holders collectively own 94.57%  
(94,572,952,297,238,200.00 Tokens) of Official Crypto Cowboy Token

Token Total Supply: 100,000,000,000,000.00 Token | Total Token Holders: 1,775

Official Crypto Cowboy Token Top 100 Token Holders

Source: Etherscan.io



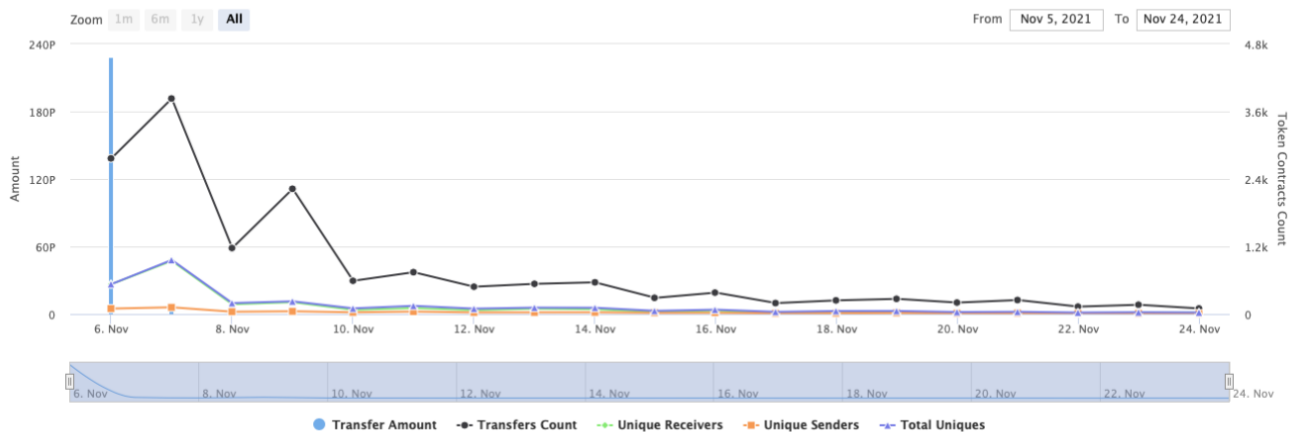
(A total of 94,572,952,297,238,200.00 tokens held by the top 100 accounts from the total supply of 100,000,000,000,000.00 token)

# Official Crypto Cowboy Token Contract Interaction Details

Time Series: Token Contract Overview

Sat 6, Nov 2021 - Wed 24, Nov 2021


Token Contract 0x95a1796437bad6502d1c1cce165cd76e522409a9 (Official Crypto Cowboy Token)  
Source: Etherscan.io





# Official Crypto Cowboy Token

## Top 10 Token Holders

Rank	Address	Quantity (Token)	Percentage
1	<a href="#">Black Hole: 0x000...dEaD</a>	80,300,951,327,600,100.496856968442753373	80.3010%
2	<a href="#">0xf2baa133ba3e6b133ce1747bc4c1cf866084e4b3</a>	1,888,932,109,554,170.370263897522387501	1.8889%
3	<a href="#">0xe3a9b018861ea6cd9040c8ad26d6f05adefacb39</a>	1,776,814,834,367,070.069034092833653856	1.7768%
4	<a href="#">0x728aa53a615ad5d7b0ecdcd6f603601f30d159fe</a>	1,003,113,654,154,790.10956093221678811	1.0031%
5	<a href="#">0xca2d60724c5b1e3b8a21a4f292a2538a803c0849</a>	1,003,113,517,865,710.964587650975285549	1.0031%
6	<a href="#">0x55fc33e87064553c95085ec8719372935b56376a</a>	858,292,137,600,143.496856968442753373	0.8583%
7	<a href="#">0xe9b4db9926025bf76d031dcda0c3d9cc6022151f</a>	610,208,825,602,607.862356596621235366	0.6102%
8	 <a href="#">Uniswap V2: OCCT 2</a>	553,216,520,810,344.754783094371832784	0.5532%
9	<a href="#">0x58586ceaec715725a4a7db79e66d616fa76ea4e1</a>	383,390,826,951,862.722360694227953803	0.3834%
10	<a href="#">0x05bc36bf2369304205cdaa3fdca81d3d9c6696be</a>	292,730,539,247,097.429100160102588849	0.2927%



# 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 #
- + Ownable (Context)
  - [Pub] <Constructor> #
  - [Pub] owner
  - [Pub] renounceOwnership #
    - modifiers: onlyOwner
  - [Pub] transferOwnership #
    - modifiers: onlyOwner
- + [Int] IUniswapV2Factory
  - [Ext] feeTo
  - [Ext] feeToSetter
  - [Ext] getPair
  - [Ext] allPairs
  - [Ext] allPairsLength
  - [Ext] createPair #
  - [Ext] setFeeTo #
  - [Ext] setFeeToSetter #
- + [Int] IUniswapV2Pair
  - [Ext] name



- [Ext] symbol
  - [Ext] decimals
  - [Ext] totalSupply
  - [Ext] balanceOf
  - [Ext] allowance
  - [Ext] approve #
  - [Ext] transfer #
  - [Ext] transferFrom #
  - [Ext] DOMAIN\_SEPARATOR
  - [Ext] PERMIT\_TYPEHASH
  - [Ext] nonces
  - [Ext] permit #
  - [Ext] MINIMUM\_LIQUIDITY
  - [Ext] factory
  - [Ext] token0
  - [Ext] token1
  - [Ext] getReserves
  - [Ext] price0CumulativeLast
  - [Ext] price1CumulativeLast
  - [Ext] kLast
  - [Ext] mint #
  - [Ext] burn #
  - [Ext] swap #
  - [Ext] skim #
  - [Ext] sync #
  - [Ext] initialize #
- + [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 #

+ **OCCT** (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
- **[Ext]** setMarketingFeePercent #
  - modifiers: onlyOwner
- **[Ext]** setTaxFeePercent #
  - modifiers: onlyOwner
- **[Ext]** setLiquidityFeePercent #
  - modifiers: onlyOwner
- **[Ext]** setBurnFeePercent #
  - modifiers: onlyOwner
- **[Pub]** deliver #
- **[Pub]** reflectionFromToken
- **[Pub]** tokenFromReflection
- **[Prv]** \_transferBothExcluded #
- **[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]** swapTokensForEth #
- **[Prv]** addLiquidity #
- **[Prv]** \_tokenTransfer #
- **[Prv]** \_transferStandard #
- **[Prv]** \_transferToExcluded #
- **[Prv]** \_transferFromExcluded #
- **[Pub]** excludeFromFee #
  - modifiers: onlyOwner
- **[Pub]** includeInFee #
  - modifiers: onlyOwner
- **[Ext]** setmarketingWallet #

- modifiers: onlyOwner
- [Ext] setMaxTxAmount #
  - modifiers: onlyOwner
- [Ext] setMaxTxPercent #
  - modifiers: onlyOwner
- [Pub] setSwapAndLiquifyEnabled #
  - 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.	Passed
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.

## ✓ Medium Severity Issues

No medium severity issues found.

## ✓ Low Severity Issues

No low severity issues found.

### Notes:

- Function `_tokenTransfer` send burn amount to dead address. To burn properly, use decreasing `rTotal` and `tTotal` values instead of sending tokens to dead address.

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

- Owner can change the tax, burn, marketing and liquidity fees.

```
function setMarketingFeePercent(uint256 newMarketingFee↑) external onlyOwner() {
    _marketingFee = newMarketingFee↑;
}

ftrace | funcSig
function setTaxFeePercent(uint256 taxFee↑) external onlyOwner() {
    _taxFee = taxFee↑;
}

ftrace | funcSig
function setLiquidityFeePercent(uint256 liquidityFee↑) external onlyOwner() {
    _liquidityFee = liquidityFee↑;
}

ftrace | funcSig
function setBurnFeePercent(uint256 burnFee↑) external onlyOwner() {
    _burnFee = burnFee↑;
}
```

- Owner can change marketing addresses.

```
function setmarketingWallet(address newWallet↑) external onlyOwner() {
    _marketingWallet = newWallet↑;
}
```

- Owner can change the maximum transaction amount.

```
function setMaxTxAmount(uint256 maxTxAmount↑) external onlyOwner() {
    _maxTxAmount = maxTxAmount↑ ;
}

ftrace | funcSig
function setMaxTxPercent(uint256 maxTxPercent↑) external onlyOwner() {
    require(maxTxPercent↑ > 1, "Cannot set transaction amount less than 10 percent!");
    _maxTxAmount = _tTotal.mul(maxTxPercent↑).div(
        10**2
    );
}
```

- Owner can exclude from the fee.

```
function excludeFromFee(address account↑) public onlyOwner {
    _isExcludedFromFee[account↑] = true;
}
```



# Conclusion

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

Liquidity locking details provided by the team:

<https://www.team.finance/view-coin/0x95A1796437BAd6502d1c1cce165Cd76E522409a9?name=Official%20Crypto%20Cowboy%20Token&symbol=OCCT>

Ownership renounce details provided by the team:

<https://etherscan.io/tx/0xb27fc243da62876e1bebaa0bb9d33755ae4d46aec72d35178e42239c83566633>

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***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.***