



TechRate
AUDIT COMPANY

Smart Contract Security Audit

TechRate

June, 2021

Audit Details



Audited project
DisCas Vision



Deployer address
0x82B9F1dCBF5e62d79ae22775A7657568E1403782



Client contacts:
DisCas Vision team



Blockchain
Binance Smart Chain



Project website:
<https://discas.vision>

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 DisCas Vision to perform an audit of smart contracts:

<https://bscscan.com/address/0x2bcdcf1ef1320fc5f9a71ca0bd1504d6125f7569#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 19.06.2021

| | |
|----------------------------------|--|
| Contract name | DisCas Vision |
| Contract address | 0x2BCDCf1ef1320Fc5F9a71CA0BD1504D6125F7569 |
| Total supply | 67,599.719 |
| Token ticker | DISC |
| Decimals | 18 |
| Token holders | 1,640 |
| Transactions count | 13,769 |
| Top 100 holders dominance | 84.65% |
| Minting finished | true |
| Contract deployer address | 0x82B9F1dCBF5e62d79ae22775A7657568E1403782 |
| Contract's current owner address | 0xcaa7cb500ba0902332954df9744f1a120aa4f373 |

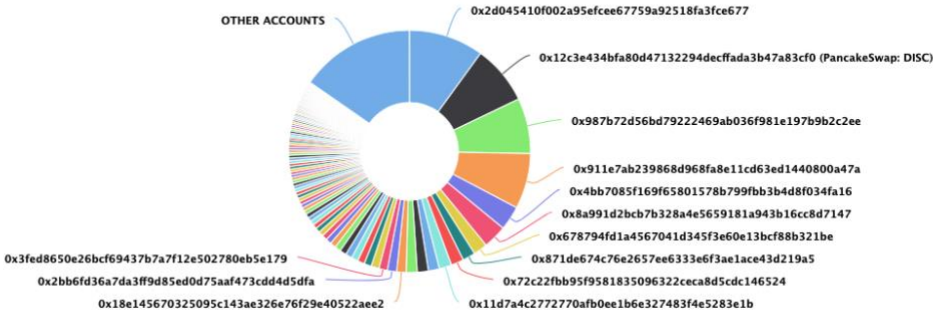
DisCas Vision Token Distribution

The top 100 holders collectively own 84.65% (57,226.45 Tokens) of DisCas Vision

Token Total Supply: 67,599.72 Token | Total Token Holders: 1,640

DisCas Vision Top 100 Token Holders

Source: BscScan.com



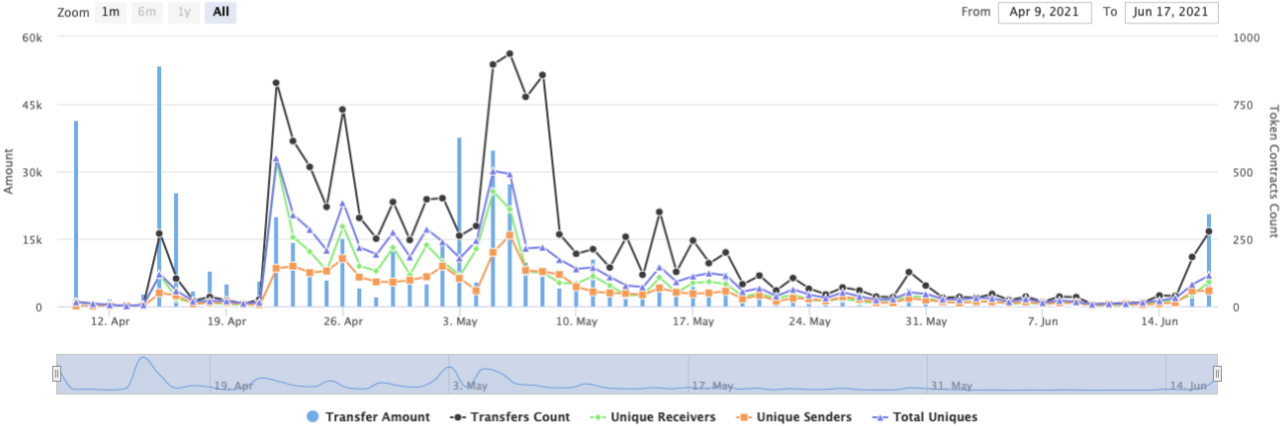
(A total of 57,226.45 tokens held by the top 100 accounts from the total supply of 67,599.72 token)

DisCas Vision Contract Interaction Details



Time Series: Token Contract Overview

Sat 10, Apr 2021 - Thu 17, Jun 2021

Token Contract 0x2bcdcf1ef1320fc5f9a71ca0bd1504d6125f7569 (DisCas Vision)
Source: BscScan.com



DisCas Vision Top 10 Token Holders

| Rank | Address | Quantity (Token) | Percentage |
|------|--|--------------------------|------------|
| 1 |  0x2d045410f002a95efcee67759a92518fa3fce677 | 6,768.93159840394 | 10.0133% |
| 2 |  PancakeSwap: DISC | 5,336.72861392303157902 | 7.8946% |
| 3 | 0x987b72d56bd79222469ab036f981e197b9b2c2ee | 5,000 | 7.3965% |
| 4 | 0x911e7ab239868d968fa8e11cd63ed1440800a47a | 5,000 | 7.3965% |
| 5 | 0x4bb7085f169f65801578b799fbb3b4d8f034fa16 | 2,181.443015685886404435 | 3.2270% |
| 6 | 0x8a991d2bcb7b328a4e5659181a943b16cc8d7147 | 2,143.14490849621029436 | 3.1703% |
| 7 | 0x678794fd1a4567041d345f3e60e13bcf88b321be | 1,271.038989404556725346 | 1.8802% |
| 8 | 0x871de674c76e2657ee6333e6f3ae1ace43d219a5 | 1,155.549959071774270444 | 1.7094% |
| 9 | 0x72c22fbb95f9581835096322ceca8d5cdc146524 | 1,139.928128830972221967 | 1.6863% |
| 10 | 0x11d7a4c2772770afb0ee1b6e327483f4e5283e1b | 1,111.753288608061693633 | 1.6446% |



Contract functions details

+ [Int] IERC20

- [Ext] totalSupply
- [Ext] balanceOf
- [Ext] transfer #
- [Ext] allowance
- [Ext] approve #
- [Ext] transferFrom #

+ ERC20 (IERC20)

- [Pub] allowance
- [Pub] transferFrom #
- [Pub] approve #

+ [Lib] SafeMath

- [Int] mul
- [Int] div
- [Int] sub
- [Int] add

+ Ownable

- [Pub] <Constructor> #
- [Pub] renounceOwnership #
 - modifiers: onlyOwner
- [Pub] transferOwnership #
 - modifiers: onlyOwner
- [Int] _transferOwnership #

+ BasicToken (IERC20, Ownable)

- [Pub] __AllowTokenTransfer #
 - modifiers: onlyOwner
- [Pub] totalSupply
- [Pub] totalSupplyCheck #
- [Pub] transfer #
- [Pub] balanceOf

+ StandardToken (ERC20, BasicToken)

- [Pub] transferFrom #
- [Pub] approve #
- [Pub] allowance
- [Pub] increaseApproval #
- [Pub] decreaseApproval #

+ MintableToken (StandardToken)

- [Pub] __basicTokenTransferable #
 - modifiers: onlyOwner
- [Pub] stop_mint #
 - modifiers: onlyOwner
- [Pub] mint #
 - modifiers: hasMintPermission,canMint
- [Pub] finishMinting #
 - modifiers: onlyOwner,canMint

+ FreezableToken (StandardToken)

- [Int] toKey
- [Pub] freezingCount
- [Pub] getFreezing
- [Pub] releaseOnce #
- [Pub] releaseAll #
- [Int] freeze #

+ FreezableMintableToken (FreezableToken, MintableToken)

- [Pub] mintAndFreeze #
 - modifiers: onlyOwner,canMint

+ Consts

+ MainToken (Consts, FreezableMintableToken)

- [Pub] <Constructor> #
- [Pub] __name
- [Pub] __symbol
- [Pub] __decimals
- [Pub] transferFrom #
- [Pub] transfer #

(\$) = 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.

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

- Owner can mint and freeze if mintingFinished is set to false.

```
function mintAndFreeze(address _to, uint _amount, uint64 _until) public onlyOwner canMint returns (bool) {
    totalSupply_ = totalSupply_.add(_amount);

    bytes32 currentKey = toKey(_to, _until);
    freezings[currentKey] = freezings[currentKey].add(_amount);
    freezingBalance[_to] = freezingBalance[_to].add(_amount);

    freeze(_to, _until);
    emit Mint(_to, _amount);
    emit Freezed(_to, _until, _amount);
    emit Transfer(msg.sender, _to, _amount);
    return true;
}
```

Conclusion

Smart contracts do not contain high severity issues!

Ownership renounce details provided by the team:

<https://twitter.com/DisCasVision/status/1390931773954002945?s=19>

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.