



TechRate

AUDIT COMPANY

Smart Contract Security Audit

[TechRate](#)

February, 2022

Audit Details



Audited project

Focal Point



Deployer address

0x42d290c9338e903efc647feee04128e1397b3745



Client contacts:

Focal Point team



Blockchain

Binance Smart Chain



Project website:

focaldefi.io

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 Focal Point to perform an audit of smart contracts:

<https://bscscan.com/address/0xf0ca10000e47a0dd2087c81ec910b0bde6ad6f5#readContract>

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 18.02.2022

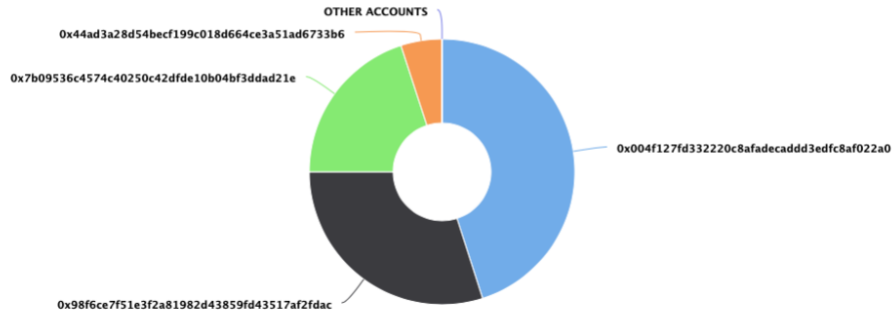
Contract name	Focal Point
Contract address	0xF0ca100000e47A0dd2087C81EC910B0BDe6Ad6f5
Total supply	15,000,000
Token ticker	FOCAL
Decimals	18
Token holders	4
Transactions count	5
Top 100 holders dominance	100.00%
Buy fee	12
Sell fee	16
Swap pair address	0x33cabeee0e96e6267906f56521f25a6c814f71cf
Contract deployer address	0x42d290c9338e903efc647feee04128e1397b3745
Contract's current owner address	0x98f6ce7f51e3f2a81982d43859fd43517af2fdac

Focal Point Token Distribution

The top 100 holders collectively own 100.00% (15,000,000.00 Tokens) of Focal Point

Token Total Supply: 15,000,000.00 Token | Total Token Holders: 4

Focal Point Top 100 Token Holders
Source: BscScan.com



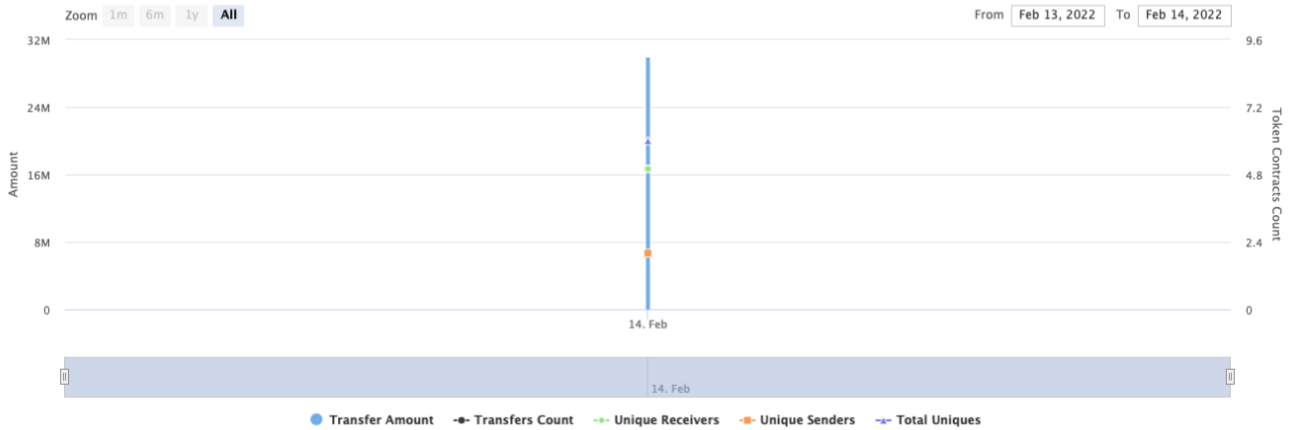
(A total of 15,000,000.00 tokens held by the top 100 accounts from the total supply of 15,000,000.00 token)

Focal Point Contract Interaction Details

Time Series: Token Contract Overview

Mon 14, Feb 2022 - Mon 14, Feb 2022

Token Contract 0xf0ca10000e47a0dd2087c81ec910b0bde6ad6f5 (Focal Point)
Source: BscScan.com



Focal Point Top 10 Token Holders

Rank	Address	Quantity (Token)	Percentage
1	0x004f127fd332220c8afadecadd3edfc8af022a0	6,760,000	45.0667%
2	0x98f6ce7f51e3f2a81982d43859fd43517af2fdac	4,490,000	29.9333%
3	0x7b09536c4574c40250c42dfde10b04bf3ddad21e	3,000,000	20.0000%
4	0x44ad3a28d54becf199c018d664ce3a51ad6733b6	750,000	5.0000%



Contract functions details

- + [Int] IERC20Metadata (IERC20)
 - [Ext] name
 - [Ext] symbol
 - [Ext] decimals
- + [Int] IERC20
 - [Ext] totalSupply
 - [Ext] balanceOf
 - [Ext] transfer #
 - [Ext] allowance
 - [Ext] approve #
 - [Ext] transferFrom #
- + Context
 - [Int] _msgSender
 - [Int] _msgData
- + [Int] ISwapFactory
 - [Ext] createPair #
- + [Int] ISwapRouter
 - [Ext] addLiquidityETH (\$)
 - [Ext] swapExactTokensForETHSupportingFeeOnTransferTokens #
 - [Ext] factory
 - [Ext] WETH
- + ERC20 (Context, IERC20, IERC20Metadata)
 - [Pub] <Constructor> #
 - [Pub] name
 - [Pub] symbol
 - [Pub] decimals
 - [Pub] totalSupply
 - [Pub] balanceOf
 - [Pub] transfer #
 - [Pub] allowance
 - [Pub] approve #
 - [Pub] transferFrom #
 - [Pub] increaseAllowance #
 - [Pub] decreaseAllowance #
 - [Int] _transfer #
 - [Int] _mint #
 - [Int] _burn #
 - [Int] _approve #
 - [Int] _beforeTokenTransfer #
 - [Int] _afterTokenTransfer #
- + Ownable (Context)
 - [Pub] <Constructor> #
 - [Pub] owner
 - [Pub] renounceOwnership #
 - modifiers: onlyOwner

- [Pub] transferOwnership #
 - modifiers: onlyOwner
- [Int] _transferOwnership #
- + FocalPoint (ERC20, Ownable)
 - [Pub] <Constructor> #
 - modifiers: ERC20
 - [Ext] <Fallback> (\$)
 - [Pub] enableTrading #
 - modifiers: onlyOwner
 - [Pub] enableFees #
 - modifiers: onlyOwner
 - [Pub] setFeeless #
 - modifiers: onlyOwner
 - [Ext] buyFee
 - [Ext] sellFee
 - [Pub] setFeeAddresses #
 - modifiers: onlyOwner
 - [Pub] setBuyFees #
 - modifiers: onlyOwner
 - [Pub] setSellFees #
 - modifiers: onlyOwner
 - [Pub] setMinSwapTokens #
 - modifiers: onlyOwner
 - [Pub] setMaxTransaction #
 - modifiers: onlyOwner
 - [Pub] setSwapAndLiquifyEnabled #
 - modifiers: onlyOwner
 - [Int] _transfer #
 - [Prv] _calculateTokensForFee
 - [Prv] _getTransferType
 - [Prv] _buyTransfer #
 - [Prv] _feesForDistributeCollected
 - [Prv] _sellTransfer #
 - [Prv] _swapAndDistribute #
 - modifiers: lockTheSwap
 - [Prv] _swapAndLiquify #
 - modifiers: lockTheSwap
 - [Prv] _swapTokensForNative #
 - [Prv] _addLiquidity #

(\$) = 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.

✓ Medium Severity Issues

No medium severity issues found.

Notes:

- Functions `setMinSwapTokens` and `setMaxTransaction` requires new value to be higher than calculated from total supply value, better to check value to be less than some threshold to avoid exceeding total supply.

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

- Owner can enable trading.
- Owner can enable/disable fees.
- Owner can make addresses feeless.
- Owner can change fees.
- Owner can change the maximum transaction and minimum swap amounts.

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 NOT provided by the team.

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.