



{P()LY BL[]CK AUDITS}

Security Assessment

VISION CITY

April 11th, 2023

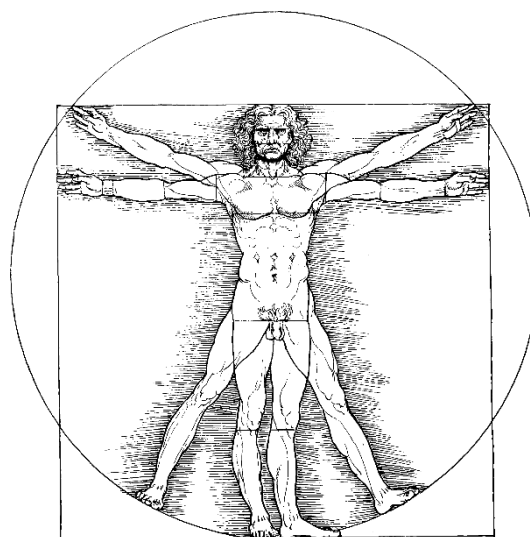




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DISCLAIMER

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 based on 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.





Summary

This report has been prepared for the Vision City smart contracts, to discover issues and vulnerabilities in the source code of their Smart Contract as well as any contract dependencies that were not part of an officially recognized library. A comprehensive examination has been performed, utilizing Dynamic Analysis, Static Analysis, and Manual Review techniques.

- The auditing process pays special attention to the following considerations:
- Testing the smart contracts against both common and uncommon attack vectors.
- Assessing the code base to ensure compliance with current best practices and industry standards.
- Ensuring contract logic meets the specifications and intentions of the client. Cross referencing contract structure and implementation against similar smart contracts produced by industry leaders.
- Thorough line-by-line manual review of the entire codebase by industry experts.

The security assessment resulted in findings that ranged from critical to informational. We recommend addressing these findings to ensure a high level of security standards and industry practices. We suggest recommendations that could better serve the project from the security perspective:

- Enhance general coding practices for better structures of source codes;
- Add enough unit tests to cover the possible use cases given they are currently missing in the repository;
- Provide more comments per each function for readability, especially contracts are verified in public;
- Provide more transparency on privileged activities once the protocol is live.





Audit Details

VISION CITY SMART CONTRACT



Audit Methodology

Static Analysis, Manual Review, Testnet



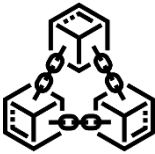
Smart Contract

[0x3Bf954e809620bF2f1Fcb667F1c7D2D2E94350d1](https://polyblockaudits.com/audit/0x3Bf954e809620bF2f1Fcb667F1c7D2D2E94350d1)



Project Deployer

[0x52120e0E01B610C9EeD680d3e31b1ed8C141F5D6](https://polyblockaudits.com/audit/0x52120e0E01B610C9EeD680d3e31b1ed8C141F5D6)



Blockchain

Ethereum



Project Website

<https://ryoshiverse.io>





Contract Overview

Project Name:	VISION CITY SMART CONTRACT
Contract Address:	0x3Bf954e809620bF2f1Fcb667F1c7D2D2E94350d1
Total Supply:	300,000,000,000
Symbol:	VIZ
Decimals:	9
Current Holders:	1
Current Transactions:	0
Top Holder 100 Dominance:	100%
Total Tax Fee:	3%
Current Contract Owner:	0x52120e0E01B610C9EeD680d3e31b1ed8C141F5D6
Language:	Solidity
Version:	v0.8.19 +commit.7dd6d404





Contract Functions

```
Interface IERC20 {
    [External] totalSupply
    [External] balanceOf
    [External] transfer
    [External] allowance
    [External] approve
    [External] transferFrom
}
```

```
Library Safemath {
    [Internal] tryAdd
    [Internal] trySub
    [Internal] tryMul
    [Internal] tryDiv
    [Internal] tryMod
    [Internal] add
    [Internal] sub
    [Internal] mul
    [Internal] div
    [Internal] mod
    [Internal] sub
    [Internal] div
    [Internal] mod
}
```

```
Contract Context {
    [Internal] _msgSender
    [Internal] _msgData
}
```

```
Abstract contract Ownable {
    [Public] <Constructor>
    [Public] owner
    [Modifier] onlyOwner
    [Public] renounceOwnership
    [Public] transferOwnership
    [Public] _transferOwnership
}
```

```
Library IERC20Metadata {
    [External] name
    [External] symbol
    [External] decimals
}
```

```
Contract ERC20 {
    [Public] <Constructor>
    [Public] name
    [Public] symbol
    [Public] decimals
    [Public] totalSupply
    [Public] balanceOf
    [Public] transfer
    [Public] allowance
    [Public] approve
    [Public] transferForm
    [Public] increaseAllowance
    [Public] decreaseAllowance
    [Private] _transfer
    [Private] _mint
    [Private] _burn
    [Private] _approve
    [Private] _beforeTokenTransfer
    [Private] _afterTokenTransfer
}
```

```
Contract VisionCity {
    [Public] <Constructor>
    [External] setBuyFees
    [External] setSellFees
    [Public] excludeFromFees
    [External] setDevWallet
    [Public] isExcludedFromFees
    [Internal] _transfer
    [External] withdrawEthFromSc
    [External] withdrawTokenFromSc
}
```





Security Issues Checking Status

NO	Issue description	Status
01	Compiler errors.	Passed
02	Race conditions and Reentrancy. Cross-function race conditions.	Passed
03	Possible delays in data delivery.	Passed
04	Oracle calls.	Passed
05	Front running.	Passed
06	Timestamp dependence.	Passed
07	Integer Overflow and Underflow.	Passed
08	DoS with Revert.	Passed
09	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	Fallback function security.	Passed





Security Issues



Extreme Issues

NO EXTREME ISSUES FOUND



High Issues

NO HIGH ISSUES FOUND



Medium Issues

NO MEDIUM ISSUES FOUND



Low Issues

NO LOW ISSUES FOUND



Informational Issues

NO INFORMATIONAL ISSUES FOUND

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

- Owner can change buyDevPercentage
- Owner can change sellDevPercentage
- Owner can excludeFromFee
- Owner can setDevWallet
- Owner can withdrawEthFromSc
- Owner can withdrawTokenFromSc





Smart Contract Owner Functions

In the contract VisionCity.sol, the role Owner has the authority over the following function:

- approve
- decreaseAllowance
- excludeFromFees
- IncreaseAllowance
- renounceOwnership
- setBuyFees
- setDevWallet
- setSellFees
- transfer
- transferFrom
- transferOwnership
- withdrawEthFromSc
- withdrawTokenFromSc





Top Holders Overview





Conclusion

The smart contract contains no security issues. Please read our disclaimer above!

Audited on: 11-04-2023
Audited by: Polymathist, the auditor

