

Smart Contract Audit Report

Audit was conducted on the Kong City Smart Contract System

Smart Contract	Code Review and Security Analysis Report for Kong City.
Type Of Utility	Dividend Rewards System; ERC20 Token
Platform	Ethereum Virtual Machine
Language	Solidity ^0.8.0
Address	0x9b77988b3028c3af8f863ef376ab747914f059f3

Audit Score

Section	Score
Codebase Security	100%
Codebase Complexity and Practices	82%
Owner Privileges and Control	98%
Overall Score	93%

Branding



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Scope of the audit

This Audit Report mainly focuses on the overall security of the Kong City Smart Contract System. This audit was conducted with rigorous attention to the general implementation of the contract and by examining the overall architectural layout of the software implementation. The reliability and correctness of this smart contract's codebase are being assessed.

Security Scope

Identifying security related issues within each contract and the system of contract.

General Code Quality

A full assessment of the code quality and general software architecture patterns and best practices used.

Auditing Methods Used

Rigorous testing of the project has been performed. Detailed code base analysis was conducted, reviewing the smart contract architecture to ensure it is structured and safe.

A detailed, line by line inspection of the codebase was conducted to find any potential security vulnerabilities such as denial of service attacks, race conditions, transaction-ordering dependence, timestamp dependence, and denial of service attacks.

Automated and manual testing was employed that included:

- Analysis of on-chain data security
- Analysis of the code in-depth and detailed, manual review of the code, line-by-line.
- Deployment of the code on an in-house testnet blockchain and running live tests.
- Determining failure preparations and if worst-case scenario protocols are in place
- Analysis of any third-party code use and verifying the overall security of this

Tools Used: Remix IDE, Ganache, Solhint, VScode, Mythril, Hardhat

Assessing Possible Issues

Any issue detected during the conduction of this audit will be categorized under one of 3 severity levels: low, medium, and high.

Low level Severity Issues

Issues that do not pose any serious threat to the functionality of the software

Medium level Severity issues

Issues that can cause potential problems to the overall health of the software application but that can be fixed without having any breaking changes on the current functionality

High level Severity issues

Critical issues that affect the smart contract's overall performance and functionality. These issues should be fixed urgently.

General Issues Report

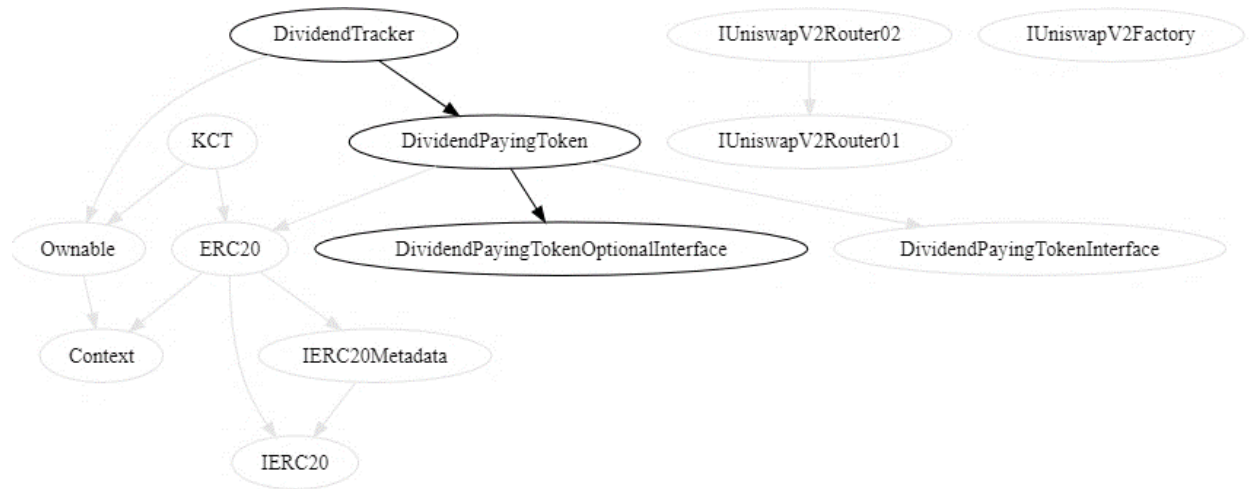
General issues that were found during manual and automatic assessments

No	Issue Verification	Status
1	Compiler warnings	Passed
2	Reentrancy and Race Conditions.	Passed
3	Possible delays in data delivery.	Passed
4	Oracle calls.	Passed
5	DoS with block gas limit.	Passed
6	DoS with Revert.	Passed
7	Timestamp dependence.	Passed
8	Methods execution permissions.	Passed
9	Economy model.	Passed
10	Exchange impact rate on the logic.	Passed
11	Private user data leaks.	Passed
12	Scoping and Declarations.	Passed
13	Arithmetic accuracy.	Passed

Issues Found

Low Level Severity	Medium Level Severity	High Level Severity
0	0	0

Contract Dependency Graphs



Manual Code Inspection

The code of the target contract and its dependencies was reviewed, deployed, and manually tested by our developers.

No	Contract	Issues
1	KCT.sol	2
2	DividendTracker.sol	1
3	DividendPayingToken.sol	0

Issues Found

Low Level Severity	Medium Level Severity	High Level Severity
0	3	0

Inspections

Contract: KCT.sol

Address: TBA

Issues: 2

Notes: ERC-20 Token Implementation

1. Contract state can change even when logic fails

Code Line: 2364

Severity: Medium

Method: `_transfer(address from, address to, uint256 amount)`
internal returns (bool)

```

2363     try
2364     |     dividendTracker.setBalance(payable(from), balanceOf(from))
2365     |     {} catch {}
2366     |     try dividendTracker.setBalance(payable(to), balanceOf(to)) {} catch {}
2367     |

```

The `setBalance` method is called within a try/catch block. This can lead to desynchronization of the dividend trackers and main contracts state.

2. Front Running Attack Surface

Code Line: 2470

Severity: Medium

Method: `swapTokensForEth(uint256 tokenAmount, address _to)`
private

```

2469     // make the swap
2470     uniswapV2Router.swapExactTokensForETHSupportingFeeOnTransferTokens(
2471         tokenAmount,
2472         0, // accept any amount of ETH
2473         path,
2474         _to,
2475         block.timestamp
2476     );

```

Setting the minimum expected output amount for a swap to be 0 can lead to frontrunning attacks that especially if there are high volume transactions involved. Calculate and set a minimum output amount or limit the max transaction amount to reduce the attack probability.

Setting the deadline parameter to the current block's timestamp may cause transactions to fail, allow a small delay when calling the router function to avoid this.

3. Hardcoded Gas Limit for Function Call

Code Line: 1624

Severity: Medium

Method: `_withdrawDividendOfUser(address payable user)`
`internal returns (uint256)`

```
▲ 1624      (bool success, ) = user!.call{value: _withdrawableDividend, gas: 3000}("");
1625
```

The 3000 gwei limit is relatively small and can break contract interactions with future EVM versions as operation gas costs may change with forks. We recommend calling this method using the standard syntax and avoiding using hardcoded gas limits.

Notes

Use of the **SafeMath** library is obsolete in Solidity $\geq 0.8.0$. The EVM performs native checks. We recommended removing the library.

The codebase is poorly organized, we recommend operating the different contracts to their own files in order to make the system more maintainable and clearer.

Access Control and Privileges

KCT Contract

Role	Methods
Owner	updateUniswapV2Router excludeFromFees setAutomatedMarketMakerPair updateGasForProcessing updateClaimWait excludeFromDividends IncludeInDividends setSwapAndLiquifyEnabled setMarketingWallet setDevWallet setTeamWallet setMaxWalletToken updateTotalBuyTax updateTotalSellTax updateTaxDistributionPercentage setSwapTokensAtAmount setMaxBuytxAmount setMaxSelltxAmount

Notes

The identified roles do not present any security-related risk at the time this audit was conducted.

This role may ban accounts from receiving dividends and also change the output of the taxing transactions

DividentTracer Contract

Role	Methods
Owner	renounceOwnership transferOwnership excludeFromDividends includeInDividends updateClaimWait setBalance processAccount

Notes

The identified roles do not present any security-related risk at the time this audit was conducted.4w

Conclusion

The **Kong City** Smart contracts do not contain any high severity security issues!

Audit Score

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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. 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 disclaimer below – please make sure to read it in full.

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SECURE . ACCESSIBLE . UNIQUE

The Owner of Kong City Has Passed All the KYC Verifications and Procedures

23:20 April 09: ID Verification 3 attempts – Passed ✓

ATTEMPTS (4)

WEBHOOKS

05:28 April 10: KYC video 3 attempts – Approved ✓

06:20 April 10: Owner's contract – Verified ✓

09:12 April 10: Video Call verification – Passed ✓



Approved

09 Apr 09:20



Resubmission

09 Apr 09:18

KYC PIC: Michael id:08027721