

Security Assessment

Coretiger

Verified on 06/07/2023



SUMMARY

Project Coretiger		CHA	AIN eDAO		METHODOLOG	
Coreugei		Core	EDAO		Manual & Auton	natic Analysis
FILES		DEL	IVERY		TYPE	
Single		06/0	7/2023		Standard Audit	
	2	0	0	0	0	2
1	otal Findings	Critical	Major	Medium	Minor	Informational
					An average was that	on offert the contract
0 Critical	0 Pending					can affect the contract ral events that can risk and act
0 Major	0 Pending					can affect the outcome ontract that can serve as
						nipulating the contract in
0 Medium	0 Pending				executing the cor	could affect the outcome in ntract in a specific
					situation	
0 Minor	0 Pending				An opening but de the functionality of	oesn't have an impact on of the contract
2 Informationa	2 Pending				An opening that owill not risk or afformation	consists information but ect the contract
STATUS	√ AUD	T PASS	ED			



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DISCLAIMER Coretiger

<u>ContractWolf</u> audits and reports should not be considered as a form of project's "Advertisement" and does not cover any interaction and assessment from "Project Contract" to "External Contracts" such as PancakeSwap, UniSwap, SushiSwap or similar.

ContractWolf does not provide any <u>warranty</u> on its released report and should not be used as a <u>decision</u> to invest into audited projects.

ContractWolf provides a transparent report to all its "Clients" and to its "Clients Participants" and will not claim any guarantee of bug-free code within its **SMART CONTRACT**.

ContractWolf's presence is to analyze, audit and assess the Client's Smart Contract to find any underlying risk and to eliminate any logic and flow errors within its code.

Each company or project should be liable to its security flaws and functionalities.



SCOPE OF WORK | Coretiger

Coretiger team has agreed and provided us with the files that need to be tested (*Github, BSCscan, Etherscan, Local files etc*). The scope of audit is the main contract.

The goal of this engagement is to identify if there is a possibility of security flaws in the implementation of smart contract and its systems.

ContractWolf will be focusing on contract issues and functionalities along with the project claims from smart contract to their website, whitepaper, repository which has been provided by **Coretiger**.



AUDITING APPROACH Coretiger

Every line of code along with its functionalities will undergo manual review to check for security issues, quality of logic and contract scope of inheritance. The manual review will be done by our team that will document any issues that they discovered.

METHODOLOGY

The auditing process follows a routine series of steps:

- 1. Code review that includes the following:
- Review of the specifications, sources and instructions provided to ContractWolf to make sure we understand the size, scope and functionality of the smart contract.
- Manual review of code. Our team will have a process of reading the code line-by-line with the intention of identifying potential vulnerabilities, underlying and hidden security flaws.
- 2. Testing and automated analysis that includes:
- Testing the smart contract function with common test cases and scenarios to ensure that it returns the expected results.
- 3. Best practices and ethical review. The team will review the contract with the aim to improve efficiency, effectiveness, clarifications, maintainability, security and control within the smart contract.
- 4. Recommendations to help the project take steps to eliminate or minimize threats and secure the smart contract.



TOKEN DETAILS | Coretiger



Core Tiger is the first meme token on Core Blockchain, 100% owned and driven by the community. A unique utility token that serves as a medium of exchange.

Token Name	Symbol	Decimal	Total Supply	Chain
CoreTiger	TCORE	18	1,000,000,000	CoreDAO

SOURCE

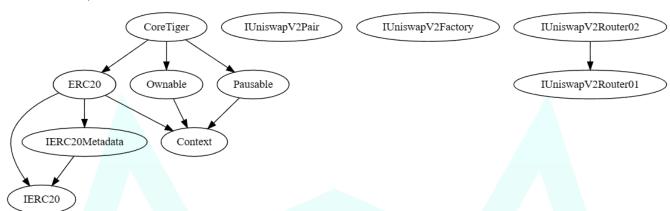
Source

0x71b6f68ac9763b33c913dba5fd7ec1cc6d9665fe



INHERITANCE GRAPH Coretiger

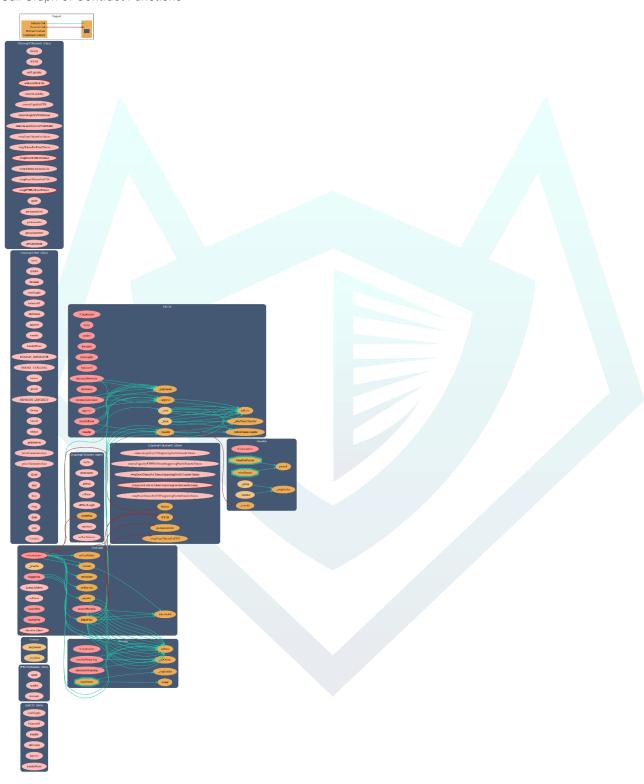
Inheritance Graph of Contract Functions





CALL GRAPH Coretiger

Call Graph of Contract Functions





FINDINGS Coretiger

2	0	0	0	0	2
Total Findings	Critical	Major	Medium	Minor	Informational

This report has been prepared to state the issues and vulnerabilities for Coretiger through this audit. The goal of this report findings is to identify specifically and fix any underlying issues and errors

ID	Title	File & Line #	Severity	Status
SWC-103	Floating Pragma is set	CoreTiger.sol, L:	Informational	Pending
SWC-131	Presence of unused variables	CoreTiger.sol, L: 835, 836, 837, 838, 840, 841, 842, 843, 845, 846, 847, 848, 857	Informational	Pending



SWC ATTACKS | Coretiger

Smart Contract Weakness Classification and Test Cases

ID	Description	Status
SWC-100	Function Default Visibility	 Passed
SWC-101	Integer Overflow and Underflow	 Passed
SWC-102	Outdated Compiler Version	 Passed
SWC-103	Floating Pragma	 Not Passed
SWC-104	Unchecked Call Return Value	 Passed
SWC-105	Unprotected Ether Withdrawal	 Passed
SWC-106	Unprotected SELF DESTRUCT Instruction	 Passed
SWC-107	Reentrancy	 Passed
SWC-108	State Variable Default Visibility	 Passed
SWC-109	Uninitialized Storage Pointer	 Passed
SWC-110	Assert Violation	 Passed
SWC-111	Use of Deprecated Solidity Functions	 Passed
SWC-112	Delegatecall to Untrusted Callee	 Passed
SWC-113	DoS with Failed Call	 Passed
SWC-114	Transaction Order Dependence	 Passed
SWC-115	Authorization through tx.origin	 Passed
SWC-116	Block values as a proxy for time	 Passed
SWC-117	Signature Malleability	 Passed
SWC-118	Incorrect Constructor Name	 Passed
SWC-119	Shadowing State Variables	 Passed
SWC-120	Weak Sources of Randomness from Chain Attributes	 Passed
SWC-121	Missing Protection against Signature Replay Attacks	 Passed
SWC-122	Lack of Proper Signature Verification	 Passed



ID	Description	Status
SWC-123	Requirement Violation	 Passed
SWC-124	Write to Arbitrary Storage Location	Passed
SWC-125	Incorrect Inheritance Order	Passed
SWC-126	Insufficient Gas Griefing	 Passed
SWC-127	Arbitrary Jump with Function Type Variable	 Passed
SWC-128	DoS With Block Gas Limit	Passed
SWC-129	Typographical Error	Passed
SWC-130	Right-To-Left-Override control character(U+202E)	Passed
SWC-131	Presence of unused variables	 Not Passed
SWC-132	Unexpected Ether balance	Passed
SWC-133	Hash Collisions With Multiple Variable Arguments	Passed
SWC-134	Message call with hardcoded gas amount	 Passed
SWC-135	Code With No Effects	 Passed
SWC-136	Unencrypted Private Data On-Chain	 Passed



CW ASSESSMENT Coretiger

ContractWolf Vulnerability and Security Tests

ID	Name	Description	Status
CW-001	Multiple Version	Presence of multiple compiler version across all contracts	V
CW-002	Incorrect Access Control	Additional checks for critical logic and flow	V
CW-003	Payable Contract	A function to withdraw ether should exist otherwise the ether will be trapped	V
CW-004	Custom Modifier	major recheck for custom modifier logic	V
CW-005	Divide Before Multiply	Performing multiplication before division is generally better to avoid loss of precision	V
CW-006	Multiple Calls	Functions with multiple internal calls	V
CW-007	Deprecated Keywords	Use of deprecated functions/operators such as block.blockhash() for blockhash(), msg.gas for gasleft(), throw for revert(), sha3() for keccak256(), callcode() for delegatecall(), suicide() for selfdestruct(), constant for view or var for actual type name should be avoided to prevent unintended errors with newer compiler versions	V
CW-008	Unused Contract	Presence of an unused, unimported or uncalled contract	V
CW-009	Assembly Usage	Use of EVM assembly is error-prone and should be avoided or double-checked for correctness	V
CW-010	Similar Variable Names	Variables with similar names could be confused for each other and therefore should be avoided	V
CW-011	Commented Code	Removal of commented/unused code lines	V
CW-012	SafeMath Override	SafeMath is no longer needed starting Solidity v0.8+. The compiler now has Built in overflow checking.	V



FIXES & RECOMMENDATION

SWC-103 A Floating Pragma is Set

Code

pragma solidity ^0.8.17;

The compiler version should be a fixed one to avoid undiscovered compiler bugs. Fixed version sample below

pragma solidity 0.8.17;



SWC-131 Presence of Unused Variables

Unused variables are allowed in Solidity and they do not pose a direct security issue. It is best practice though to avoid them as they can

```
uint256 private devTaxBuy;
uint256 private marketingTaxBuy;
uint256 private liquidityTaxBuy;
uint256 private charityTaxBuy;

uint256 private devTaxSell;
uint256 private marketingTaxSell;
uint256 private liquidityTaxSell;
uint256 private charityTaxSell;
address private devTaxWallet;
address private marketingTaxWallet;
address private liquidityTaxWallet;
address private charityTaxWallet;
uint256 public Optimization = 7253120083344532514554802530773877;
```



AUDIT COMMENTS Coretiger

Smart Contract audit comment for a non-technical perspective

- Contract is pausable
- Owner can renounce and transfer ownership
- Owner can block/unblock addresses
- Owner can toggle pause in trading
- Owner can exclude/include addresses from tax
- Owner can update total buy tax, total sell tax up to 100% each
- Owner can change tax wallet receivers
- Owner can toggle taking of tax between trades
- Owner can manually handle tax
- Owner cannot burn tokens
- Owner cannot mint after initial deployment
- Owner cannot set max transaction limit



CONTRACTWOLF

Blockchain Security - Smart Contract Audits