



C o r e D o g A i

Audit Report

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1 | Audit Summary

Project Name	CoreDogAi (COGAI) - (https://coredogai.com/)
Platform	CORE DAO
Language	Solidity (0.8.7)
Contract Address	0x1E0A1761e51E3571d5a8EA72f400f6137E431012
Delivery Date	May 13, 2024
Audit Msolodology	Static Analysis, Manual Review
Key Components	DxStandardToken

1.1 | Vulnerability Summary

Vulnerability Summary	Total	🕒 Pending	🕒 Declined	🕒 Acknowledged	🕒 Partially Resolved	🕒 Resolved
🔴 Critical	0	0	0	0	0	0
🟠 Major	0	0	0	0	0	0
🟡 Medium	0	0	0	0	0	0
🟢 Minor	0	0	0	0	0	0
🔵 Informational	0	0	0	0	0	0
🟢 Discussion	0	0	0	0	0	0

1.2 | Audit Scope

External Dependencies

This audit focused on identifying security flaws in code and the design of EscrowDapp Contract. It was conducted on the source code provided by the EscrowDapp team. The following files were made available in the course of the review:

Privileged Functions

The contract contains the following privileged functions that are restricted by role with the modifier. Since the contract is the owner cannot modify the contract configurations and address attributes.

Audit methodology

Dependencies

Our security audit process for smart contract includes two steps:

- Smart contract codes are scanned/tested for commonly known and more specific vulnerabilities using public and RK87, our in-house smart contract security analysis tool.
- Manual audit of the codes for security issues. The contracts are manually analyzed to look for any potential problems.

1.3 | Source Code

```
// SPDX-License-Identifier: MIT

pragma solidity 0.8.7;
pragma experimental ABIEncoderV2;

/**
 * @dev Interface of the ERC20 standard as defined in the EIP.
 */
interface IERC20 {
    /**
     * @dev Emitted when 'value' tokens are moved from one account ('from') to
     * another ('to').
     *
     * Note that 'value' may be zero.
     */
    event Transfer(address indexed from, address indexed to, uint256 value);

    /**
     * @dev Emitted when the allowance of a 'spender' for an 'owner' is set by
     * a call to (approve). 'value' is the new allowance.
     */
    event Approval(address indexed owner, address indexed spender, uint256 value);

    /**
     * @dev Returns the amount of tokens in existence.
     */
    function totalSupply() external view returns (uint256);

    /**
     * @dev Returns the amount of tokens owned by 'account'.
     */
    function balanceOf(address account) external view returns (uint256);

    /**
     * @dev Moves 'amount' tokens from the caller's account to 'to'.
     *
     * Returns a boolean value indicating whether the operation succeeded.
     *
     * Emits a (Transfer) event.
     */
    function transfer(address to, uint256 amount) external returns (bool);
}
```

```
contract DnsStandardToken is Context, IERC20, IERC20Metadata, Ownable {

    mapping (address => uint256) private _balances;
    mapping (address => mapping (address => uint256)) private _allowances;

    bool public mintedByOxsale = true;
    uint256 private _totalSupply;
    bool public mintingFinishedPermanent = false;
    string private _name;
    string private _symbol;
    uint8 private _decimals;
    address public _creator;
    /**
     * @dev Sets the values for {name}, {symbol} and {decimals}.
     *
     * All two of these values are immutable: they can only be set once during
     * construction.
     */
    constructor (address creator, string memory name, string memory symbol, uint8 decimals,
        uint256 tokenSupply) {
        _name = name;
        _symbol = symbol;
        _decimals = decimals;
        _creator = creator;

        _mint(_creator, tokenSupply);
        mintingFinishedPermanent = true;
    }

    /**
     * @dev Returns the name of the token.
     */
    function name() public view virtual override returns (string memory) {
        return _name;
    }

    /**
     * @dev Returns the symbol of the token, usually a shorter version of the
     * name.
     */
    function symbol() public view virtual override returns (string memory) {
        return _symbol;
    }
}
```

```
function _burn(address account, uint256 amount) internal virtual {
    require(account != address(0), "ERC20: burn from the zero address");

    _beforeTokenTransfer(account, address(0), amount);

    uint256 accountBalance = _balances[account];
    require(accountBalance >= amount, "ERC20: burn amount exceeds balance");
    _balances[account] = accountBalance - amount;
    _totalSupply -= amount;

    emit Transfer(account, address(0), amount);
}

/**
 * @dev Sets 'amount' as the allowance of 'spender' over the 'owner's tokens.
 *
 * This internal function is equivalent to 'approve', and can be used to
 * e.g. set automatic allowances for certain subsystems, etc.
 *
 * Emits an (Approval) event.
 *
 * Requirements:
 *
 * - 'owner' cannot be the zero address.
 * - 'spender' cannot be the zero address.
 */
function _approve(address owner, address spender, uint256 amount) internal virtual {
    require(owner != address(0), "ERC20: approve from the zero address");
    require(spender != address(0), "ERC20: approve to the zero address");

    _allowances[owner][spender] = amount;
    emit Approval(owner, spender, amount);
}

/**
 * @dev Hook that is called before any transfer of tokens. This includes
 * minting and burning.
 *
 * Calling conditions:
 *
 * - when 'from' and 'to' are both non-zero, 'amount' of ''from''s tokens
 * will be transferred to 'to'.
 * - when 'from' is zero, 'amount' tokens will be minted for 'to'.
 * - when 'to' is zero, 'amount' of ''from''s tokens will be burned.
 * - 'from' and 'to' are never both zero.
 *
 * To learn more about hooks, head to xref:ROOT:extendable-contracts.adoc#using-hooks (using Hooks).
 */
function _beforeTokenTransfer(address from, address to, uint256 amount) internal virtual { }
```

```
contract DnsStandardToken is Context, IERC20, IERC20Metadata, Ownable {

    mapping (address => uint256) private _balances;
    mapping (address => mapping (address => uint256)) private _allowances;

    bool public mintedByOxsale = true;
    uint256 private _totalSupply;
    bool public mintingFinishedPermanent = false;
    string private _name;
    string private _symbol;
    uint8 private _decimals;
    address public _creator;
    /**
     * @dev Sets the values for {name}, {symbol} and {decimals}.
     *
     * All two of these values are immutable: they can only be set once during
     * construction.
     */
    constructor (address creator, string memory name, string memory symbol, uint8 decimals, uint256 tokenSupply) {
        _name = name;
        _symbol = symbol;
        _decimals = decimals;
        _creator = creator;

        _mint(_creator, tokenSupply);
        mintingFinishedPermanent = true;
    }

    /**
     * @dev Returns the name of the token.
     */
    function name() public view virtual override returns (string memory) {
        return _name;
    }

    /**
     * @dev Returns the symbol of the token, usually a shorter version of the
     * name.
     */
    function symbol() public view virtual override returns (string memory) {
        return _symbol;
    }

    /**
     * @dev Moves tokens 'amount' from 'sender' to 'recipient'.
     *
     * This is internal function is equivalent to (transfer), and can be used to
     * e.g. implement automatic token fees, slashing mechanisms, etc.
     *
     * Emits a (Transfer) event.
     *
     * Requirements:
     *
     * - 'sender' cannot be the zero address.
     * - 'recipient' cannot be the zero address.
     * - 'sender' must have a balance of at least 'amount'.
     */
}
```

2 | Disclaimer

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This report should not be used in any way to make decisions around investment or involvement with any particular project. This report in no way provides investment advice, nor should be leveraged as investment advice of any sort. This report represents an extensive assessing process intending to help our customers increase the quality of their code while reducing the high level of risk presented by cryptographic tokens and blockchain technology.

Blockchain technology and cryptographic assets present a high level of ongoing risk. FusionTech's position is that each company and individual are responsible for their own due diligence and continuous security.

FusionTech's goal is to help reduce the attack vectors and the high level of variance associated with utilizing new and consistently changing technologies, and in no way claims any guarantee of security or functionality of the technology we agree to analyze.

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ALL SERVICES, THE LABELS, THE ASSESSMENT REPORT, WORK PRODUCT, OR OTHER MATERIALS, OR ANY PRODUCTS OR RESULTS OF THE USE THEREOF ARE PROVIDED "AS IS" AND "AS

3 | Global Overview

FusionTech uses certain vulnerability levels, these indicate how bad a certain issue is. The higher the risk, the more strictly it is recommended to correct the error before using the contract.

SEVERITY LEVEL	DESCRIPTION
CRITICAL	A vulnerability that can disrupt the contract functioning; creates a critical risk to the contract; required to be fixed immediately.
HIGH	A vulnerability that could affect the desired outcome of executing the contract with high impact; needs to be fixed with high priority.
MEDIUM	A vulnerability that could affect the desired outcome of executing the contract with medium impact in a specific scenario; needs to be fixed.
LOW	An issue that does not have a significant impact, can be considered as less important.

4 | Vulnerabilities Findings

The Smart Contract Weakness Classification Registry (SWC Registry) is an implementation of the weakness classification scheme proposed in EIP-1470. It is loosely aligned to the terminologies and structure used in the Common Weakness Enumeration (CWE) while overlaying a wide range of weakness variants that are specific to smart contracts.

ID SWC-	Description	Status
100	Function Default Visibility	Passed
SWC-101	Integer Overflow and Underflow	Passed
SWC-102	Outdated Compiler Version	Passed
SWC-103	Floating Pragma	Passed
SWC-104	Unchecked Call Return Value	Passed
SWC-105	Unprotected soler Withdrawal	Passed
SWC-106	Unprotected SELFDESTRUCT	Passed
SWC-107	Instruction 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
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	Passed
SWC-132	Unexpected solar balance	Passed
SWC-133	Hash Collisions With Multiple Variable Length	Passed
SWC-134	Arguments Message call with hardcoded gas amount	Passed
SWC-135	Code With No Effects	Passed
SWC-136	Unencrypted Private Data On-Chain	Passed

Recommendation

Private keys belonging to the employer and/or contract owner should be stored properly. The initial asset allocation procedure should involve consultation with the community.

5 | Contract Privileges

5.1 | Maximum Fee Limit Check

FusionTech tests if the owner of the smart contract can set the transfer, buy or sell fee to 25% or more. It is bad practice to set the fees to 25% or more, because owners can prevent healthy trading or even stop trading when the fees are set too high.

ERROR	Description
Code	Centralization: Operator Fee
CEN-01	Manipulation

TYPE OF FEE	DESCRIPTION
Transacted without Tax	0%
Max buy fee	0%
Max sell fee	0%

5.2 | Contract Pausability Check

FusionTech tests if the owner of the smart contract has the ability to pause the contract. If this is the case, users can no longer interact with the smart contract; users can no longer trade the token.

Privilege Check	Description
Can owner pause the contract?	● Owner cannot pause the contract

5.3 | Max Transaction Amount Check

FusionTech tests if the owner of the smart contract can set the maximum amount of a transaction. If the transaction exceeds this limit, the transaction will revert. Owners could prevent normal transactions to take place if they abuse this function.

PRIVILEGE CHECK	DESCRIPTION
Can owner set max tx amount?	● Owner cannot set max transaction amount

5.4 | Exclude From Fees Check

FusionTech tests if the owner of the smart contract can exclude addresses from paying tax fees. If the owner of the smart contract can exclude from fees, they could set high tax fees and exclude themselves from fees and benefit from 0% trading fees. However, some smart contracts require this function to exclude routers, dex, cex or other contracts / wallets from fees.

Privilege Check	Description
Can owner exclude from fees?	● Owner can exclude from fees

FUNCTION

```
function excludeFromFees(address account, bool excluded) external onlyOwner{
    _isExcludedFromFees[account] = excluded;

    emit ExcludeFromFees(account, excluded); }
```

5.5 | Ability to Mint Check

FusionTech tests if the owner of the smart contract can mint new tokens. If the contract contains a mint function, we refer to the token's total supply as non- xed, allowing the token owner to "mint" more tokens whenever they want.

A mint function in the smart contract allows minting tokens at a later stage. A msolod to disable minting can also be added to stop the minting process irreversibly.

Minting tokens is done by sending a transaction that creates new tokens inside of the token smart contract. With the help of the smart contract function, an unlimited number of tokens can be created without spending additional energy or money.

Privilege Check	Description
Can owner mint?	● Owner cannot mint new tokens


5.6 | Ability to Blacklist Check

FusionTech tests if the owner of the smart contract can blacklist accounts from interacting with the smart contract. Blacklisting msolods allow the contract owner to enter wallet addresses which are not allowed to interact with the smart contract.

This msolod can be abused by token owners to prevent certain / all holders from trading the token. However, blacklists might be good for tokens that want to rule out certain addresses from interacting with a smart contract.

Privilege Check	Description
Can owner blacklist?	● Owner cannot blacklist an wallet/address

6 | Contract Snapshot


Token CoreDogAI

Overview ERC-20

Total Supply
10,000,000,000 **COGAI** ⓘ

Holders
13

Transfers
14


Profile Summary ⓘ

Contract
0x1e0a1761e51e3571d5a8ea72f400f6137e431012

Decimals:
18

Official Site:
<https://www.coredogai.com> ⓘ

Social Profiles
✉ 📷 🐦


Contract 0x1E0A1761E51E3571D5A8EA72F400F6137E431012 ⓘ ⓘ

source code

Overview

Balance
0 CORE

More Info ❤️ ⓘ

🔗 My Name Tag:
Not Available Login to Update?

Contract Creator
0x8b344b...8d2611ac

Token Tracker
● CoreDogAI (COGAI)

Code Read Contract Write Contract

Contract Source Code Verified

Contract Name: DxStandardToken

Optimization Enabled: Yes with 200 runs

Compiler Version: v0.8.7+commit.e28d00a7

Other Settings: evmVersion MIT License (MIT) **license**

Contract Source Code Solidity

Outline More Options

```

1 //
2 // Official DxStandard Token
3 // To Mint your own token visit https://dxr.app
4 // Dontint verified tokens are unriggable through code
5 // To view the audit certificate for this token search it in https://dxr.app/damint
6 // Please ensure one wallet doesn't hold too much supply of tokens!
7 //
8
9 // SPDX-License-Identifier: MIT
10
11 pragma solidity 0.8.7;
12 pragma experimental ABIEncoderV2;
13
14
15 /**
16  * @dev Interface of the ERC20 standard as defined in the EIP.
17  */
18 interface IERC20 {
19     /**
20      * @dev Emitted when 'value' tokens are moved from one account ('from') to
21      * another ('to').
22      *
23      * Note that 'value' may be zero.
24      */
25     event Transfer(address indexed from, address indexed to, uint256 value);

```

7 | Website Review

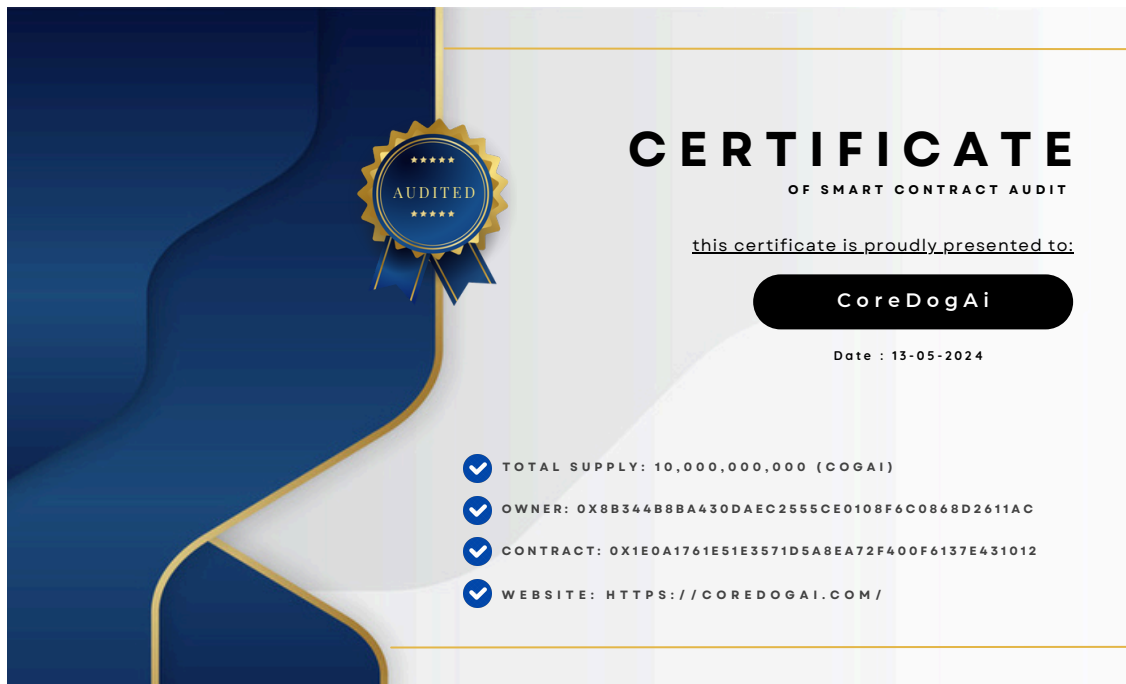
FusionTech checks the website completely manually and looks for visual, technical and textual errors. We also look at the security, speed and accessibility of the website. In short, a complete check to see if the website meets the current standard of the web development industry.



Type of check	Description
Mobile friendly?	● The website is mobile friendly
Contains jQuery errors?	● The website does not contain jQuery errors
Is SSL secured?	● The website is SSL secured
Contains spelling errors?	● The website does not contain spelling errors

8 | Certificate of Proof

● Smart Contract Audited



Appendix

Finding Categories

Centralization / Privilege

Centralization / Privilege findings refer to either feature logic or implementation of components that act against the nature of decentralization, such as explicit ownership or specialized access roles in combination with a mechanism to relocate funds.

Logical Issue

Logical Issue findings detail a fault in the logic of the linked code, such as an incorrect notion on how block.timestamp works.

Volatile Code

Volatile Code findings refer to segments of code that behave unexpectedly on certain edge cases that may result in a vulnerability.

Coding Style

Coding Style findings usually do not affect the generated byte-code but rather comment on how to make the codebase more legible and, as a result, easily maintainable.

Inconsistency

Inconsistency findings refer to functions that should seemingly behave similarly yet contain different code, such as a constructor assignment imposing different requirements on the input variables than a setter function.

Checksum Calculation Method

The "Checksum" field in the "Audit Scope" section is calculated as the SHA-256 (Secure Hash Algorithm 2 with digest size of 256 bits) digest of the content of each file hosted in the listed source repository under the specified commit.

The result is hexa-decimal encoded and is the same as the output of the Linux "sha256sum" command against the target file.

About

Founded in 2022 by leading academics in the field of Computer Science, FusionTech is going to be a leading blockchain security company that serves to verify the security and correctness of smart contracts KYC and blockchain-based protocols. Through the utilization of our world-class technical expertise, alongside our proprietary, innovative tech, we're able to support the success of our clients with best-in-class security, all whilst realizing our overarching vision; provable trust for all throughout all facets of blockchain.



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