



- ✓ Blockchain Security
- ✓ Smart Contract Audits
- ✓ KYC

Audit

Security Assessment
JULY 29 2022

For:



Disclaimer

Description

Project Engagement

Logo

Contract Link

Background

Issues Checking Status

Security Issues

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Version	Date	Description
1.0	July 2022	<ul style="list-style-type: none">• Layout project• Automated- /Manual-Security• Testing• Summary

Network

Binance Smart Chain (BEP20)

Website

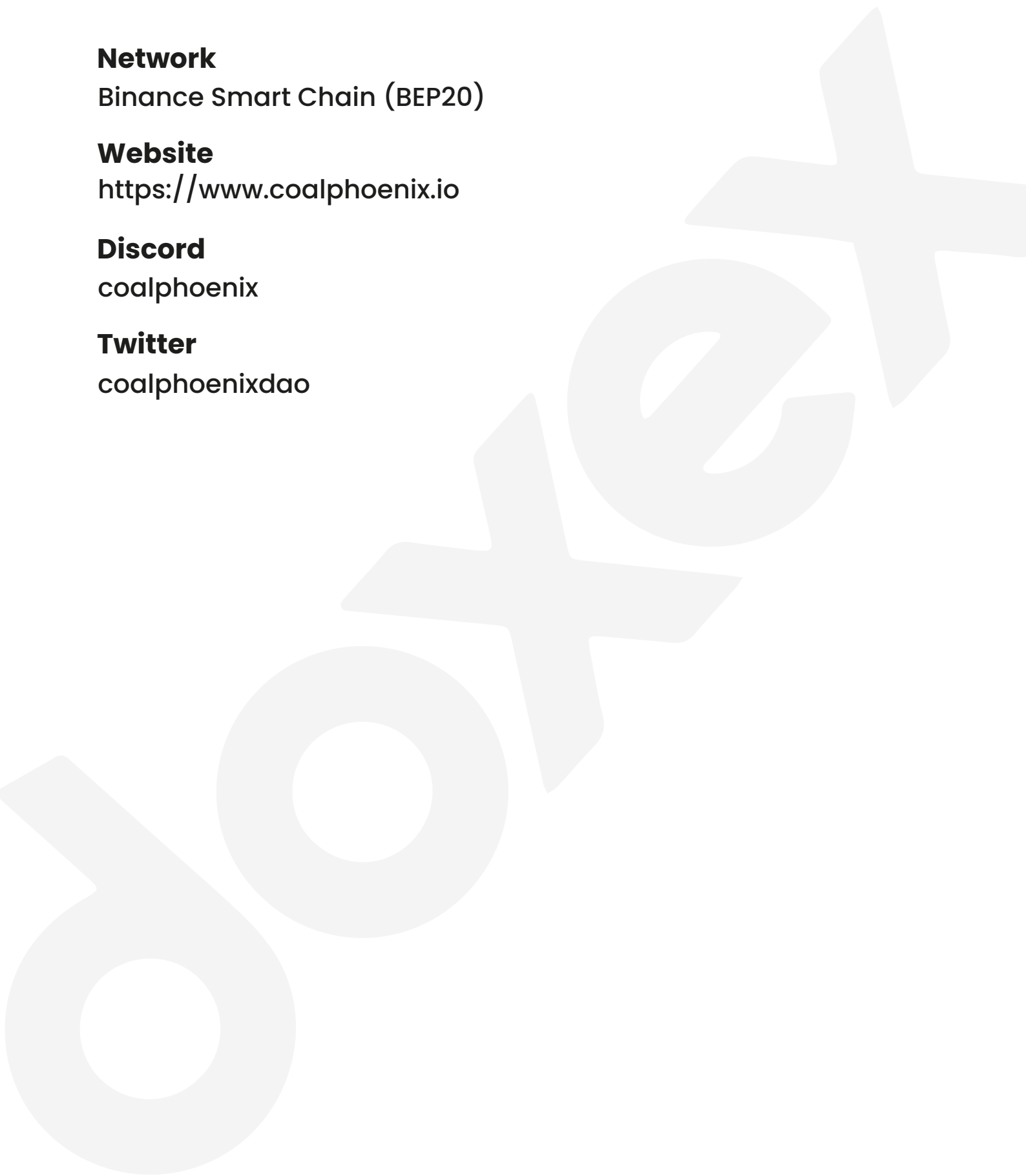
<https://www.coalphenix.io>

Discord

coalphenix

Twitter

coalphenixdao



Description

\$COAX is changing how we can solve real world environmental problems by using the power of the crypto community.

Project Engagement

How the Crypto Community Can Solve a Century Old Problem.

CoalPhoenix™ is an Investment DAO created to fund the first CoalMax™ Project through our \$COAX token. This unique relationship is a giant step forward on how crypto entrepreneurs can make impactful change for our world.

Logo



Contract

Binance Smart Chain: 0x9b4898ADA204A77BA3e837245A210AE3759F4153

Background

Doxex was commissioned by BNBHive to perform an audit of smart contracts:

<https://bscscan.com/address/0x9b4898ada204a77ba3e837245a210ae3759f4153#code>

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 24.07.2022

Contract name	Coalphoenix
Contract address	0x9b4898ADA204A77BA3e837245A210AE3759F4153
Total supply	567,000,000
Token ticker	COAX
Decimals	18
Token holders	1
Transactions count	3
Top 100 holders dominance	100.00%
Fee wallet	0x7120cd07ca21926536ebec74383dc47087f199ac
Contract deployer address	0x9b1a228921fe36b794aa10efca20d6a03c286ca6
Owner address	0x7120cd07ca21926536ebec74383dc47087f199ac

DF1408

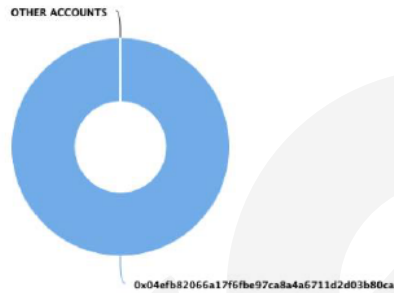
Coalphoenix Token Distribution

The top 100 holders collectively own 100.00% (567,000,000.00 Tokens) of CoalPhoenix

Token Total Supply: 567,000,000.00 Token | Total Token Holders: 1

CoalPhoenix Top 100 Token Holders

Source: BscScan.com



(A total of 567,000,000.00 tokens held by the top 100 accounts from the total supply of 567,000,000.00 token)

Coalphoenix Contract Interaction Details

Time Series: Token Contract Overview

Wed 20, Jul 2022 - Wed 20, Jul 2022

Token Contract 0x9b4898ada204a77ba3e837245a210ae3759f4153 (CoalPhoenix)

Source: BscScan.com



Coalphoenix Top 10 Token Holders

Rank	Address	Quantity (Token)	Percentage
1	0x04efb82066a17f6f97ca8a4a6711d2d03b80ca	567,000,000	100.0000%

CoalPhoenix Token Distribution

+ [Lib] SafeMath

- [Int] tryAdd
- [Int] trySub
- [Int] tryMul
- [Int] tryDiv
- [Int] tryMod
- [Int] add
- [Int] sub
- [Int] mul
- [Int] div
- [Int] mod
- [Int] sub
- [Int] div
- [Int] mod

+ [Int] IERC20

- [Ext] totalSupply
- [Ext] balanceOf
- [Ext] transfer #
- [Ext] allowance
- [Ext] approve #
- [Ext] transferFrom #

+ [Int] IERC20Metadata (IERC20)

- [Ext] name
- [Ext] symbol
- [Ext] decimals

+ Context

- [Int] _msgSender
- [Int] _msgData

+ 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 #

+ coalPhoenixToken (ERC20, Ownable)

- [Pub] <Constructor> #
- modifiers: ERC20
- [Pub] issueTokens #
- modifiers: onlyOwner
- [Pub] burnTokens #
- modifiers: onlyOwner
- [Int] _transfer #
- [Pub] isExcludedFromFee
- [Pub] excludeFromFee #
- modifiers: onlyOwner
- [Pub] excludeFromFee #
- modifiers: onlyOwner
- [Ext] setFeeWallet #
- modifiers: onlyOwner
- [Ext] setFee #
- modifiers: onlyOwner

(\$) = payable function

= non-constant function

Issues Checking Status

Issue description	Checking status
1. Compiler errors.	PASSED
2. Race conditions and Reentrancy. Cross-function race Passed 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.	Low issues
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 Passed usage.	PASSED
21. Fallback function security.	PASSED

Audit Results

AUDIT PASSED

✓ Security Issues

No high severity issues found.

✓ Medium Severity Issues

No medium severity issues found.

⊘ Low Severity Issues

There are three low severity issues.

1. Out of gas

Issue:

- The function `excludeFromFee()` uses the loop to exclude multiple addresses from the fee. Function will be aborted with `OUT_OF_GAS` exception if there will be a long addresses list.

Recommendation:

Check that the array length is not too big.







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

- Owner can mint and burn tokens.
- Owner can exclude from the fee.
- Owner can change fee value.
- Owner can change fee wallet address.



Testnet deployment

Testnet deployment

Contracts Description Table

Contract	Type	Bases			
L	Function Name	Visibility	Mutability	Modifiers	
coalPhoenixToken	Implementation	ERC20, Ownable			
L	issueTokens	Public !		onlyOwner	
L	burnTokens	Public !		onlyOwner	
L	excludeFromFee	Public !		onlyOwner	
L	excludeFromFee	Public !		onlyOwner	
L	setFeeWallet	External !		onlyOwner	
L	setFee	External !		onlyOwner	

Legend

Symbol	Meaning
	Function can modify state
	Function is payable

Testnet deployment

Smart contracts contain low severity issues! The further transfers and operations with the funds raise are not related to this particular contract.

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.



- ✓ **Blockchain Security**
- ✓ **Smart Contract Audits**
- ✓ **KYC**