



# Smart Contract Audit

FOR

## Alaska CEO

DATED : 06 Mar 23'



# AUDIT SUMMARY

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**Project name** – Alaska CEO

**Date:** 06 March, 2023

**Scope of Audit-** Audit Ace was consulted to conduct the smart contract audit of the solidity source codes.

**Audit Status:** **Passed**

## Issues Found

Status	Critical	High	Medium	Low	Suggestion
Open	0	0	0	1	0
Acknowledged	0	0	0	0	0
Resolved	0	0	0	0	0

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# USED TOOLS

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## Tools:

### 1- Manual Review:

a line by line code review has been performed by audit ace team.

### 2- BSC Test Network:

all tests were done on BSC Test network, each test has its transaction has attached to it.

### 3- Slither : Static Analysis

**Testnet Link:** all tests were done using this contract, tests are done on BSC Testnet

<https://testnet.bscscan.com/address/0x3085C247aAf835893A5F00d9ED4829fE70EA95b2>

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# Token Information

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**Token Name :** Alaska CEO

**Token Symbol:** ALASKACEO

**Decimals:** 9

**Token Supply:** 420,000,000,000,000,000

**Token Address:**

0x68534E3EE15e7b42b95ae937fdcF70280b39f7ce

**Checksum:**

f1a6e12a4e8b37a17dd893c02cc2f07ebe2c9d83

**Owner:**

0xdfECa207b14f1D1335C9FD238f989c7F4Ff48876

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# TOKEN OVERVIEW

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## **Fees:**

Buy Fees: 10%

Sell Fees: 10%

Transfer Fees: 10%

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**Fees Privilege:** None

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**Ownership :** Owned

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**Minting:** No mint function

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**Max Tx Amount/ Max Wallet Amount:** No

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**Blacklist:** No

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**Other Privileges:** including and excluding from fees

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# AUDIT METHODOLOGY

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The auditing process will follow a routine as special considerations by Auditace:

- Review of the specifications, sources, and instructions provided to Auditace to make sure the contract logic meets the intentions of the client without exposing the user's funds to risk.
  - Manual review of the entire codebase by our experts, which is the process of reading source code line-by-line in an attempt to identify potential vulnerabilities.
  - Specification comparison is the process of checking whether the code does what the specifications, sources, and instructions provided to Auditace describe.
  - Test coverage analysis determines whether the test cases are covering the code and how much code is exercised when we run the test cases.
  - Symbolic execution is analysing a program to determine what inputs cause each part of a program to execute.
  - Reviewing the codebase to improve maintainability, security, and control based on the established industry and academic practices.
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# VULNERABILITY CHECKLIST

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- |                                                                                                                    |                                                                                                                 |
|--------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------|
|  Return values of low-level calls  |  Gasless Send                  |
|  Private modifier                  |  Using block.timestamp         |
|  Multiple Sends                    |  Re-entrancy                   |
|  Using Suicide                    |  Tautology or contradiction   |
|  Gas Limitand Loops              |  Timestamp Dependence        |
|  Address hardcoded               |  Revert/require functions    |
|  Exception Disorder              |  Use of tx.origin            |
|  Using inline assembly           |  Integer overflow/underflow  |
|  Divide before multiply          |  Dangerous strict equalities |
|  Missing Zero Address Validation |  Using SHA3                  |
|  Compiler version not fixed      |  Using throw                 |
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# CLASSIFICATION OF RISK

## Severity

## Description

◆ Critical	These vulnerabilities could be exploited easily and can lead to asset loss, data loss, asset, or data manipulation. They should be fixed right away.
◆ High-Risk	A vulnerability that affects the desired outcome when using a contract, or provides the opportunity to use a contract in an unintended way.
◆ Medium-Risk	A vulnerability that could affect the desired outcome of executing the contract in a specific scenario.
◆ Low-Risk	A vulnerability that does not have a significant impact on possible scenarios for the use of the contract and is probably subjective.
◆ Gas Optimization / Suggestion	A vulnerability that has an informational character but is not affecting any of the code.

## Findings

### Severity

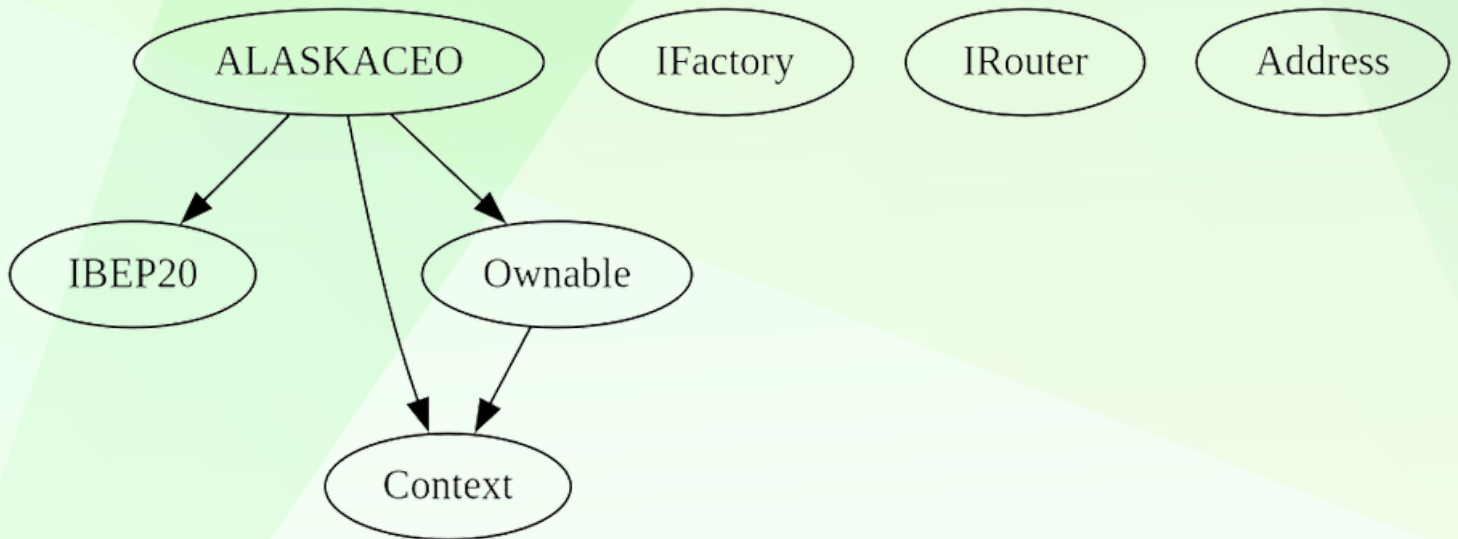
### Found

◆ Critical	0
◆ High-Risk	0
◆ Medium-Risk	0
◆ Low-Risk	1
◆ Gas Optimization / Suggestions	0



# INHERITANCE TREE

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# POINTS TO NOTE

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- **Owner is not able to change fees (10% for buy/sell/transfers static)**
  - **Owner is not able to set max buy/sell/transfer/hold amount**
  - **Owner is not able to blacklist an arbitrary wallet**
  - **Owner is not able to disable trades**
  - **Owner is not able to mint new tokens**
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# STATIC ANALYSIS

```
Reentrancy in ALASKACE0.transferFrom(address,address,uint256) (contracts/Token.sol#223-235):
  External calls:
    - _transfer(sender,recipient,amount) (contracts/Token.sol#228)
      - (success) = recipient.call{value: amount}{} (contracts/Token.sol#108)
      - router.swapExactTokensForETHSupportingFeeOnTransferTokens(tokenAmount,0,path,address(this),block.timestamp) (contracts/Token.sol#504-510)
      - address(marketingWallet).sendValue(deltaBalance) (contracts/Token.sol#490)
  External calls sending eth:
    - _transfer(sender,recipient,amount) (contracts/Token.sol#228)
      - (success) = recipient.call{value: amount}{} (contracts/Token.sol#108)
  Event emitted after the call(s):
    - Approval(owner,spender,amount) (contracts/Token.sol#424)
    - _approve(sender,msgSender(),currentAllowance - amount) (contracts/Token.sol#232)
Reference: https://github.com/crytic/slither/wiki/Detector-Documentation#reentrancy-vulnerabilities-3

ALASKACE0.includeInReward(address) (contracts/Token.sol#294-305) has costly operations inside a loop:
  - _excluded.pop() (contracts/Token.sol#301)
Reference: https://github.com/crytic/slither/wiki/Detector-Documentation#costly-operations-inside-a-loop

Context.msgData() (contracts/Token.sol#35-38) is never used and should be removed
Reference: https://github.com/crytic/slither/wiki/Detector-Documentation#dead-code

ALASKACE0.rTotal (contracts/Token.sol#133) is set pre-construction with a non-constant function or state variable:
  - (MAX - (MAX % tTotal))
Reference: https://github.com/crytic/slither/wiki/Detector-Documentation#function-initializing-state

Pragma version^0.8.17 (contracts/Token.sol#6) necessitates a version too recent to be trusted. Consider deploying with 0.6.12/0.7.6/0.8.16
solc-0.8.18 is not recommended for deployment
Reference: https://github.com/crytic/slither/wiki/Detector-Documentation#incorrect-versions-of-solidity

Low level call in Address.sendValue(address,uint256) (contracts/Token.sol#105-110):
  - (success) = recipient.call{value: amount}{} (contracts/Token.sol#108)
Reference: https://github.com/crytic/slither/wiki/Detector-Documentation#low-level-calls

Function IRouter.WETH() (contracts/Token.sol#77) is not in mixedCase
Struct ALASKACE0.valuesFromGetValues (contracts/Token.sol#157-165) is not in CapWords
Constant ALASKACE0.decimals (contracts/Token.sol#129) is not in UPPER_CASE_WITH_UNDERSCORES
Constant ALASKACE0._name (contracts/Token.sol#140) is not in UPPER_CASE_WITH_UNDERSCORES
Constant ALASKACE0._symbol (contracts/Token.sol#141) is not in UPPER_CASE_WITH_UNDERSCORES
Reference: https://github.com/crytic/slither/wiki/Detector-Documentation#conformance-to-solidity-naming-conventions

Redundant expression "this (contracts/Token.sol#36)" inContext (contracts/Token.sol#30-39)
Reference: https://github.com/crytic/slither/wiki/Detector-Documentation#redundant-statements

ALASKACE0.tTotal (contracts/Token.sol#132) should be constant
ALASKACE0.deadWallet (contracts/Token.sol#137) should be constant
ALASKACE0.marketingWallet (contracts/Token.sol#138) should be constant
ALASKACE0.swapTokensAtAmount (contracts/Token.sol#135) should be constant
Reference: https://github.com/crytic/slither/wiki/Detector-Documentation#state-variables-that-could-be-declared-constant

ALASKACE0.pair (contracts/Token.sol#127) should be immutable
ALASKACE0.router (contracts/Token.sol#126) should be immutable
Reference: https://github.com/crytic/slither/wiki/Detector-Documentation#state-variables-that-could-be-declared-immutable
```

**Result => A static analysis of contract's source code has been performed using slither,**

**No major issues were found in the output**



# FUNCTIONAL TESTING

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## **Router (PCS V2):**

0xD99D1c33F9fC3444f8101754aBC46c52416550D1

All the functionalities have been tested, no issues were found

### **1- Adding liquidity (passed):**

<https://testnet.bscscan.com/tx/0x5827cdc98fa1f933f95372cb6ad13207da1c0e4a89b1f359c70bb7b524e73318>

### **2- Buying when excluded (0% tax) (passed):**

<https://testnet.bscscan.com/tx/0x87b24b7f36bebe1b4e17d6f1a9af756ffddad99968ac1b4e9f96225c5483f28>

### **3- Selling when excluded (0% tax) (passed):**

<https://testnet.bscscan.com/tx/0x3668399b662ffbe028fc290f43bf1880dceedc10bda8cd0d4d79ef24ffdb2b71>

### **4- Transferring when transfer without fee enabled (0% tax) (passed):**

<https://testnet.bscscan.com/tx/0x730619172270101ef70ea6c6b9ab8e04f7900aae5f42811b204c27943837f1e1>

### **5- Buying when not excluded (10% tax) (passed):**

<https://testnet.bscscan.com/tx/0x31e6ee30fe08d6bc99c7de52846a28ee36bcf33db78b1d49f2368f6ab5598cd5>

### **6- Selling when not excluded (10% tax) (passed):**

<https://testnet.bscscan.com/tx/0xe5d74b4268963df856dc1ed509737aec99caac97fe21834c9ada6de28efc66de>

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# FUNCTIONAL TESTING

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**7- Transferring when transfer without fee disabled (10% tax)**  
**(passed):**

<https://testnet.bscscan.com/tx/0x95669cccaebb137cdc599a3f3cf7771a0169bd2ba7314c8e7d75f53f64eacf5>

**8- Internal swap (passed):**

**marketing wallet received ETH**

<https://testnet.bscscan.com/address/0x7800632ef3bc0fb611b8f0fd5d6b4fa5292bcd33#internaltx>

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# MANUAL TESTING

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Issue: **no transferOwnership Function**

Type : **Logical**

Function: ---

Line: 42-69

Severity: **Informational**

## Overview:

the contract does not have a transferOwnership function, which means that the ownership of the contract cannot be transferred to another address. This can be a problem if the original owner loses control of their private keys or if they are no longer able to manage the contract for any reason

## Recommendations

To address the issue identified in this audit, we recommend the following:

1. Implement a TransferOwnership Function The contract should be updated to include a transferOwnership function that allows the current owner to transfer ownership of the contract to another address. This function should include proper access control to prevent unauthorized transfers of ownership.



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# ABOUT AUDITACE

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We specialize in providing thorough and reliable audits for Web3 projects. With a team of experienced professionals, we use cutting-edge technology and rigorous methodologies to evaluate the security and integrity of blockchain systems. We are committed to helping our clients ensure the safety and transparency of their digital assets and transactions.



**<https://auditace.tech/>**



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# CONTRACT ASSESMENT


Contract	Type	Bases			
├──	├──	├──	├──	├──	├──
├──	**Function Name**	**Visibility**	**Mutability**	**Modifiers**	
├──	**IBEP20**	Interface			
├──	totalSupply	External	!		NO!
├──	balanceOf	External	!		NO!
├──	transfer	External	!		NO!
├──	allowance	External	!		NO!
├──	approve	External	!		NO!
├──	transferFrom	External	!		NO!
├──	**Context**	Implementation			
├──	_msgSender	Internal	🔒		
├──	_msgData	Internal	🔒		
├──	**Ownable**	Implementation	Context		
├──	<Constructor>	Public	!		NO!
├──	owner	Public	!		NO!
├──	renounceOwnership	Public	!		onlyOwner
├──	_setOwner	Private	🔒		
├──	**IFactory**	Interface			
├──	createPair	External	!		NO!
├──	**IRouter**	Interface			
├──	factory	External	!		NO!
├──	WETH	External	!		NO!
├──	addLiquidityETH	External	!		NO!
├──	swapExactTokensForETHSupportingFeeOnTransferTokens	External	!		NO!
├──	**Address**	Library			
├──	sendValue	Internal	🔒		
├──	**ALASKACEO**	Implementation	Context, IBEP20, Ownable		
├──	<Constructor>	Public	!		NO!
├──	name	Public	!		NO!
├──	symbol	Public	!		NO!
├──	decimals	Public	!		NO!
├──	totalSupply	Public	!		NO!
├──	balanceOf	Public	!		NO!
├──	allowance	Public	!		NO!

# CONTRACT ASSESMENT

^	approve	Public !		NO!
^	transferFrom	Public !		NO!
^	increaseAllowance	Public !		NO!
^	decreaseAllowance	Public !		NO!
^	transfer	Public !		NO!
^	isExcludedFromReward	Public !		NO!
^	reflectionFromToken	Public !		NO!
^	tokenFromReflection	Public !		NO!
^	excludeFromReward	Public !		onlyOwner
^	includeInReward	External !		onlyOwner
^	excludeFromFee	Public !		onlyOwner
^	includeInFee	Public !		onlyOwner
^	isExcludedFromFee	Public !		NO!
^	\_reflectRfi	Private 		
^	\_takeMarketing	Private 		
^	\_getValues	Private 		
^	\_getTValues	Private 		
^	\_getRValues	Private 		
^	\_getRate	Private 		
^	\_getCurrentSupply	Private 		
^	\_approve	Private 		
^	\_transfer	Private 		
^	\_tokenTransfer	Private 		
^	swapAndLiquify	Private 		lockTheSwap
^	swapTokensForBNB	Private 		
^	bulkExcludeFee	External !		onlyOwner
^	<Receive Ether>	External !		NO!

| Symbol | Meaning |

| :-----: | ----- |

|  | Function can modify state |