



Audit Report

Crypto Invest Capital

February 2022

Type	ERC20
Network	AVAX
Address	0x1810CE622648032f5F34EA1a1386e53759D84C90
Audited by	© coinscope

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Contract Review

Contract Name	CryptoInvestCapital
Compiler Version	v0.8.4+commit.c7e474f2
Optimization	200 runs
Licence	
Explorer	https://snowtrace.io/token/0x1810CE622648032f5F34EA1a1386e53759D84C90
Symbol	CIC
Decimals	9
Total Supply	1,000,000,000,000
Source	contract.sol
Domain	cryptoinvestcapital.finance

Audit Updates

Initial Audit	10th February 2022
Corrected	

Contract Analysis

● Critical
 ● Medium
 ● Minor
 ● Pass

Severity	Code	Description
●	ST	Contract Owner is not able to stop or pause transactions
●	OCTD	Contract Owner is not able to transfer tokens from specific address
●	OTUT	Owner Transfer User's Tokens
●	ELFM	Contract Owner is not able to increase fees more than a reasonable percent (25%)
●	ULTW	Contract Owner is not able to increase the amount of liquidity taken by dev wallet more than a reasonable percent
●	MT	Contract Owner is not able to mint new tokens
●	BT	Contract Owner is not able to burn tokens from specific wallet
●	BC	Contract Owner is not able to blacklist wallets from selling

ST - Stop Transactions

Criticality	medium
Location	contract.sol#L363

Description

The contract owner has the authority to stop transactions for all users excluding the owner. The owner may take advantage of it by setting the `tradingEnabled` to false.

```
if (!tradingEnabled) {  
    require(  
        _isExcludedFromFee[from] || _isExcludedFromFee[to],  
        "Trading is not live yet"  
    );  
}
```

Recommendation

The contract could not allow the owner to disable the *tradingEnabled* flag once it switched on.

The team should carefully manage the private keys of the owner's account. We strongly recommend a powerful security mechanism that will prevent a single user from accessing the contract admin functions. That risk can be prevented by temporarily locking the contract or renouncing ownership.

OCTD - Owner Contract Tokens Drain

Criticality

minor

Location

contract.sol#L584,590

Description

The contract owner has the authority to claim all the balance of the contract. The owner may take advantage of it by

1. Swapping the accumulated contract tokens for AVAX.
2. Sending the AVAX to the owner's wallets.

```
function manualswap() external {  
    require(_msgSender() == w1);  
    uint256 contractBalance = balanceOf(address(this));  
    swapTokensForEth(contractBalance);  
}  
  
function manualsend() external {  
    require(_msgSender() == w1);  
    uint256 contractETHBalance = address(this).balance;  
    sendETHToFee(contractETHBalance);  
}
```

Recommendation

The team should carefully manage the private keys of the owner's account. We strongly recommend a powerful security mechanism that will prevent a single user from accessing the contract admin functions. That risk can be prevented by temporarily locking the contract or renouncing ownership.

Contract Diagnostics

● Critical ● Medium ● Minor

Severity	Code	Description
●	L01	Public Function could be Declared External
●	L02	State Variables could be Declared Constant
●	L05	Unused State Variable
●	L04	Conformance to Solidity Naming Conventions
●	L09	Dead Code Elimination
●	L15	Local Scope Variable Shadowing

L01 - Public Function could be Declared External

Criticality	minor
Location	contract.sol#L141,246,250,254,258,266 and 3 more

Description

Public functions that are never called by the contract should be declared external to save gas.

```
transferFrom
approve
allowance
...
```

Recommendation

Use the external attribute for functions never called from the contract

L02 - State Variables could be Declared Constant

Criticality

minor

Location

contract.sol#L120

Description

Constant state variables should be declared constant to save gas.

```
_previousOwner
```

Recommendation

Add the constant attribute to state variables that never change.

L05 - Unused State Variable

Criticality

minor

Location

contract.sol#L120,186

Description

There are segments that contain unused state variables.

```
_tOwned  
_previousOwner
```

Recommendation

Remove unused state variables.

L04 - Conformance to Solidity Naming Conventions

Criticality	minor
Location	contract.sol#L164,544,550,190,194,195 and 1 more

Description

Solidity defines a naming convention that should be followed. Rule exceptions:

- Allow constant variable name/symbol/decimals to be lowercase.
- Allow _ at the beginning of the mixed_case match for private variables and unused parameters.

```
_decimals  
_symbol  
_name  
...
```

Recommendation

Follow the Solidity naming convention.

<https://docs.soliditylang.org/en/v0.4.25/style-guide.html#naming-conventions>

L09 - Dead Code Elimination

Criticality

minor

Location

contract.sol#L104,108

Description

Functions that are not used in the contract, and make the code's size bigger.

```
mod
```

Recommendation

Remove unused functions.

L15 - Local Scope Variable Shadowing

Criticality

minor

Location

contract.sol#L275,345

Description

There are variables that are defined in the local scope containing the same name from an upper scope.

```
owner
```

Recommendation

The local variables should have different names from the upper scoped variables.

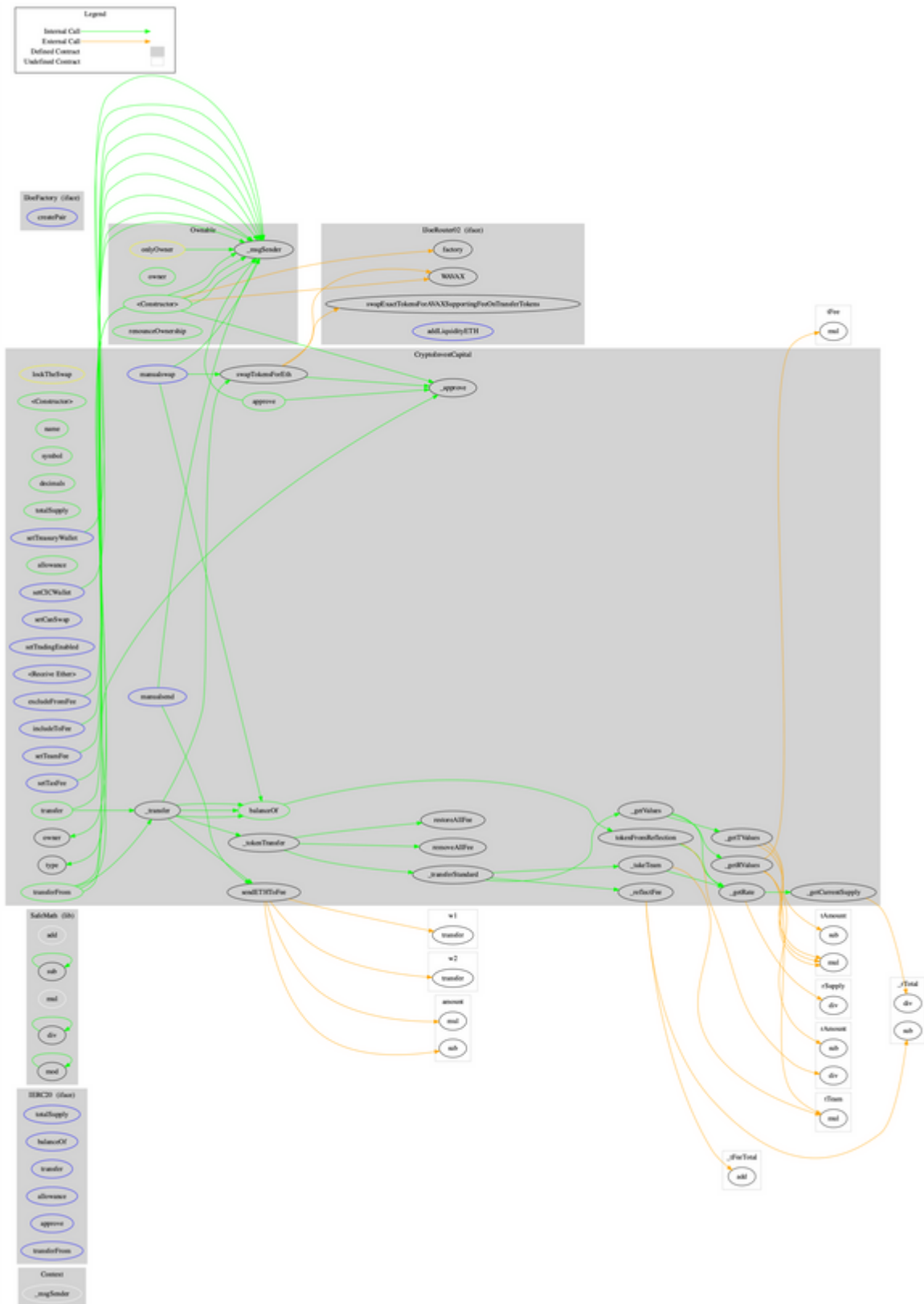
Contract Functions

Contract	Type	Bases		
	Function Name	Visibility	Mutability	Modifiers
Context	Implementation			
	_msgSender	Internal		
IERC20	Interface			
	totalSupply	External		-
	balanceOf	External		-
	transfer	External	✓	-
	allowance	External		-
	approve	External	✓	-
	transferFrom	External	✓	-
SafeMath	Library			
	add	Internal		
	sub	Internal		
	sub	Internal		
	mul	Internal		
	div	Internal		
	div	Internal		
	mod	Internal		
	mod	Internal		
Ownable	Implementation	Context		
	<Constructor>	Public	✓	-
	owner	Public		-
	renounceOwnership	Public	✓	onlyOwner
IJoeFactory	Interface			
	createPair	External	✓	-

IJoeRouter02	Interface			
	swapExactTokensForAVAXSupportingFeeOnTransferTokens	External	✓	-
	factory	External		-
	WAVAX	External		-
	addLiquidityETH	External	Payable	-
CryptoInvestCapital	Implementation	Context, IERC20, Ownable		
	<Constructor>	Public	✓	-
	name	Public		-
	symbol	Public		-
	decimals	Public		-
	totalSupply	Public		-
	balanceOf	Public		-
	transfer	Public	✓	-
	allowance	Public		-
	approve	Public	✓	-
	transferFrom	Public	✓	-
	tokenFromReflection	Private		
	setCanSwap	External	✓	onlyOwner
	setTradingEnabled	External	✓	onlyOwner
	removeAllFee	Private	✓	
	restoreAllFee	Private	✓	
	_approve	Private	✓	
	_transfer	Private	✓	
	swapTokensForEth	Private	✓	lockTheSwap
	sendETHToFee	Private	✓	
	_tokenTransfer	Private	✓	
	_transferStandard	Private	✓	
	_getValues	Private		
	_getTValues	Private		
	_getRate	Private		
	_getCurrentSupply	Private		
	_getRValues	Private		

	_takeTeam	Private	✓	
	_reflectFee	Private	✓	
	<Receive Ether>	External	Payable	-
	setTreasuryWallet	External	✓	-
	setCICWallet	External	✓	-
	excludeFromFee	External	✓	-
	includeToFee	External	✓	-
	setTeamFee	External	✓	-
	setTaxFee	External	✓	-
	manualswap	External	✓	-
	manualsend	External	✓	-

Contract Flow



Domain Info

Domain Name	cryptoinvestcapital.finance
Registry Domain ID	a73e30a56fab4e27b5d701297279dde9-DONUTS
Creation Date	2022-01-16T20:41:22Z
Updated Date	2022-01-24T16:02:26Z
Registry Expiry Date	2023-01-16T20:41:22Z
Registrar WHOIS Server	whois.tldregistrarsolutions.com
Registrar URL	http://www.tldregistrarsolutions.com
Registrar	TLD Registrar Solutions Ltd.
Registrar IANA ID	1564

The domain has been created 25 days before the creation of the audit. It will expire in 11 months.

There is no public billing information, the creator is protected by the privacy settings.

Summary

There are some functions that can be abused by the owner, like stopping transactions and transferring funds to the team's wallet. The maximum fee percentage that can be set is 12%. A multi-wallet signing pattern will provide security against potential hacks. Temporarily locking the contract or renouncing ownership will eliminate all the contract threats.

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About Coinscope

Coinscope is the leading early coin listing, voting and auditing authority firm. The audit process is analyzing and monitoring many aspects of the project. That way, it gives the community a good sense of security using an informative report and a generic score.

Coinscope is aiming to make crypto discoverable and efficient globally. It provides all the essential tools to assist users draw their own conclusions.



The Coinscope.co team

<https://www.coinscope.co>