



# Audit Report

## **Crypto Champ**

February 2022

|            |  |
|------------|--|
| Type       | BEP20                                      |
| Network    | BSC  |
| Address    | 0xF43bb498B5Da75d855575860e8646E62b255401E |
| Audited by | © coinscope                                |

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## Contract Review

|                         |   |
|-------------------------|---|
| <b>Contract Name</b>    | CHMP  |
| <b>Compiler Version</b> | v0.8.4+commit.c7e474f2  |
| <b>Optimization</b>     | 200 runs  |
| <b>Licence</b>          | MIT   |
| <b>Explorer</b>         | <a href="https://bscscan.com/token/0xF43bb498B5Da75d855575860e8646E62b255401E">https://bscscan.com/token/0xF43bb498B5Da75d855575860e8646E62b255401E</a> |
| <b>Symbol</b>           | CHMP  |
| <b>Decimals</b>         | 9   |
| <b>Total Supply</b>     | 1,000,000,000,000,000   |
| <b>Source</b>           | contract.sol  |
| <b>Domain</b>           | cryptochamp.app   |

## Audit Updates

|                      |                    |
|----------------------|--------------------|
| <b>Initial Audit</b> | 22nd February 2022 |
| <b>Corrected</b>     |                    |

# 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  |

# 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 |
| ●        | L15  | Local Scope Variable Shadowing             |

## L01 - Public Function could be Declared External

**Criticality**

minor

**Location**

contract.sol#L110,116,184,188,192,196,204,209,213,218 and 6 more

### Description

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

```
excludeMultipleAccountsFromFees  
toggleSwap  
setFee  
setNewMarketingAddress  
setNewDevAddress  
rescueForeignTokens  
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#L93

### 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#L93,127

### Description

There are segments that contain unused state variables.

```
_tOwned  
_previousOwner
```

### Recommendation

Remove unused state variables.



## L04 - Conformance to Solidity Naming Conventions

|                    |   |
|--------------------|---|
| <b>Criticality</b> | minor   |
| <b>Location</b>    | contract.sol#L34,299,305,312,300,398,132,145,146,147 and 2 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  
_tTotal  
_swapEnabled  
_amount  
_to  
_tokenAddr  
marketingAddressUpdated  
...
```

### Recommendation

Follow the Solidity naming convention.

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

## L15 - Local Scope Variable Shadowing

**Criticality**

minor

**Location**

contract.sol#L209,230

### 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.

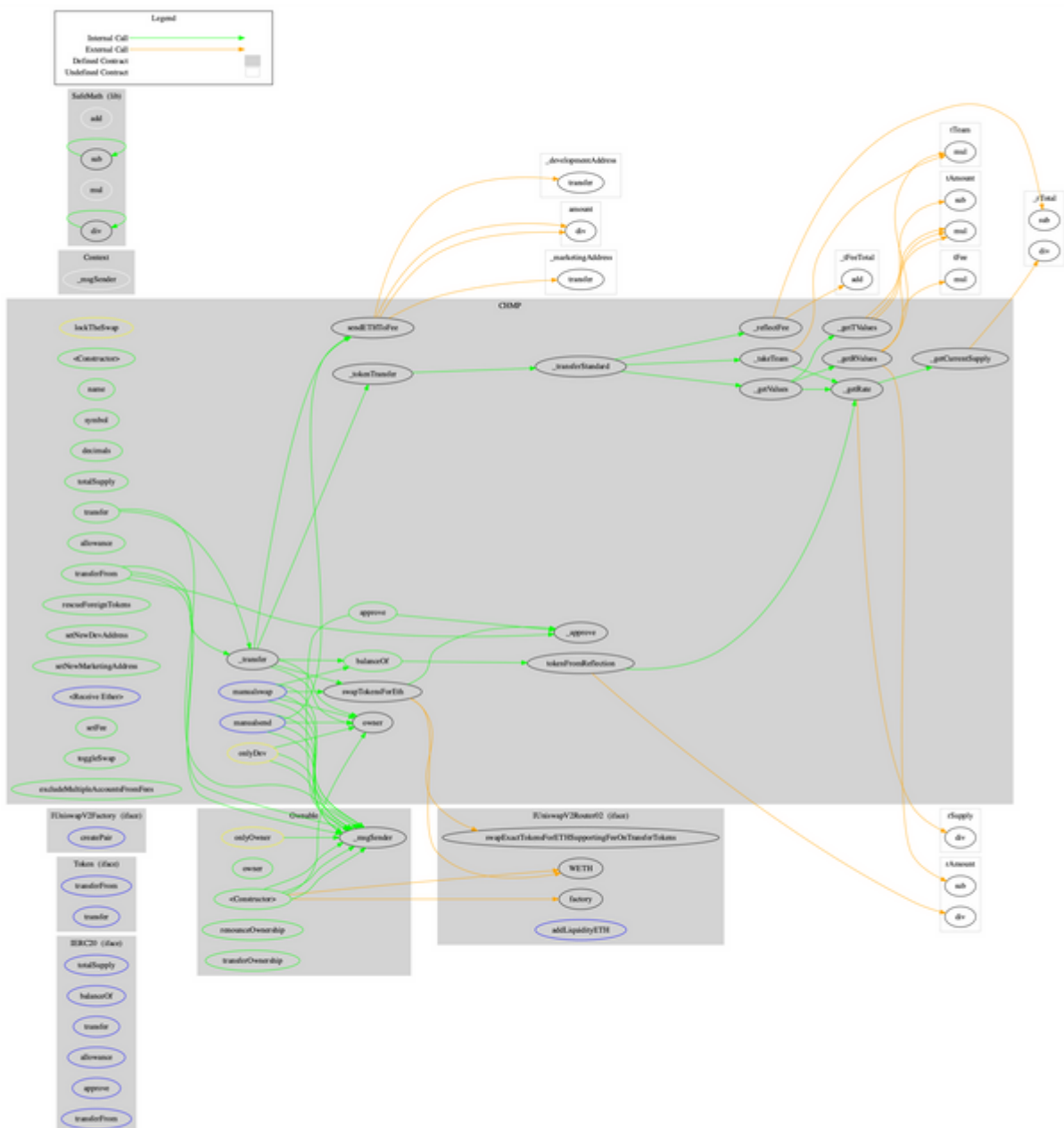
# Contract Functions

| Contract                  | Type   | Bases      |            |           |
|---------------------------|--|------------|------------|-----------|
|                           | Function Name                                      | Visibility | Mutability | Modifiers |
|                           |  |            |            |           |
| <b>IERC20</b>             | Interface  |            |            |           |
|                           | totalSupply  | External   |            | -         |
|                           | balanceOf  | External   |            | -         |
|                           | transfer   | External   | ✓          | -         |
|                           | allowance  | External   |            | -         |
|                           | approve  | External   | ✓          | -         |
|                           | transferFrom                                       | External   | ✓          | -         |
|                           |  |            |            |           |
| <b>Token</b>              | Interface  |            |            |           |
|                           | transferFrom                                       | External   | ✓          | -         |
|                           | transfer   | External   | ✓          | -         |
|                           |  |            |            |           |
| <b>IUniswapV2Factory</b>  | Interface  |            |            |           |
|                           | createPair   | External   | ✓          | -         |
|                           |  |            |            |           |
| <b>IUniswapV2Router02</b> | Interface  |            |            |           |
|                           | swapExactTokensForETHSupportingFeeOnTransferTokens | External   | ✓          | -         |
|                           | factory  | External   |            | -         |
|                           | WETH   | External   |            | -         |
|                           | addLiquidityETH                                    | External   | Payable    | -         |
|                           |  |            |            |           |
| <b>Context</b>            | Implementation                                     |            |            |           |
|                           | _msgSender   | Internal   |            |           |
|                           |  |            |            |           |
| <b>SafeMath</b>           | Library  |            |            |           |

|                |                        |                                |   |             |
|----------------|------------------------|--------------------------------|---|-------------|
|                | add                    | Internal                       |   |             |
|                | sub                    | Internal                       |   |             |
|                | sub                    | Internal                       |   |             |
|                | mul                    | Internal                       |   |             |
|                | div                    | Internal                       |   |             |
|                | div                    | Internal                       |   |             |
|                |                        |                                |   |             |
| <b>Ownable</b> | Implementation         | Context                        |   |             |
|                | <Constructor>          | Public                         | ✓ | -           |
|                | owner                  | Public                         |   | -           |
|                | renounceOwnership      | Public                         | ✓ | onlyOwner   |
|                | transferOwnership      | Public                         | ✓ | onlyOwner   |
|                |                        |                                |   |             |
| <b>CHMP</b>    | Implementation         | Context,<br>IERC20,<br>Ownable |   |             |
|                | <Constructor>          | Public                         | ✓ | -           |
|                | name                   | Public                         |   | -           |
|                | symbol                 | Public                         |   | -           |
|                | decimals               | Public                         |   | -           |
|                | totalSupply            | Public                         |   | -           |
|                | balanceOf              | Public                         |   | -           |
|                | transfer               | Public                         | ✓ | -           |
|                | allowance              | Public                         |   | -           |
|                | approve                | Public                         | ✓ | -           |
|                | transferFrom           | Public                         | ✓ | -           |
|                | tokenFromReflection    | Private                        |   |             |
|                | _approve               | Private                        | ✓ |             |
|                | _transfer              | Private                        | ✓ |             |
|                | swapTokensForEth       | Private                        | ✓ | lockTheSwap |
|                | sendETHToFee           | Private                        | ✓ |             |
|                | _tokenTransfer         | Private                        | ✓ |             |
|                | rescueForeignTokens    | Public                         | ✓ | onlyDev     |
|                | setNewDevAddress       | Public                         | ✓ | onlyDev     |
|                | setNewMarketingAddress | Public                         | ✓ | onlyDev     |
|                | _transferStandard      | Private                        | ✓ |             |

|  |                                 |          |         |           |
|--|---------------------------------|----------|---------|-----------|
|  | _takeTeam                       | Private  | ✓       |           |
|  | _reflectFee                     | Private  | ✓       |           |
|  | <Receive Ether>                 | External | Payable | -         |
|  | _getValues                      | Private  |         |           |
|  | _getTValues                     | Private  |         |           |
|  | _getRValues                     | Private  |         |           |
|  | _getRate                        | Private  |         |           |
|  | _getCurrentSupply               | Private  |         |           |
|  | manualswap                      | External | ✓       | -         |
|  | manualseed                      | External | ✓       | -         |
|  | setFee                          | Public   | ✓       | onlyDev   |
|  | toggleSwap                      | Public   | ✓       | onlyDev   |
|  | excludeMultipleAccountsFromFees | Public   | ✓       | onlyOwner |

# Contract Flow



## Domain Info

|                               |   |
|-------------------------------|---|
| <b>Domain Name</b>            | cryptochamp.app   |
| <b>Registry Domain ID</b>     | 48881541F-APP   |
| <b>Creation Date</b>          | 2022-02-22T17:06:20Z  |
| <b>Updated Date</b>           | 2022-02-22T17:06:21Z  |
| <b>Registry Expiry Date</b>   | 2023-02-22T17:06:20Z  |
| <b>Registrar WHOIS Server</b> | whois.nic.google  |
| <b>Registrar URL</b>          | <a href="https://www.godaddy.com/">https://www.godaddy.com/</a> |
| <b>Registrar</b>              | GoDaddy.com, LLC  |
| <b>Registrar IANA ID</b>      | 146   |

The domain has been created about 3 hours before the creation of the audit. It will expire in 12 months.

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

## Summary

Crypto Champ is an interesting project with a friendly and growing community. The Smart Contract analysis reported no compiler error or critical issues. The contract Owner can access some admin functions that can not be used in a malicious way to disturb the users' transactions. There is also a limit on changing fees.



# Disclaimer

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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>