SOLIDITY. *FINANCE*

Treward Token - Audit Report

SUMMARY

Treward is a new token where every transaction has a fee that is instantly redistributed among all token holders.

We reviewed Treward's token contract at commit 68fdec05eb1a3b96645ed2f85a849ff130a4a8b4 on GitHub.

Notes on the contract:

- *The total supply of the token is 35,000, delivered to the team upon deployment.*

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holders.

- *Users who hold tokens will automatically receive a proportional amount of the redistributed fees from the transaction tax.*
- *The owner sets the transfer fees and can change them at any time.*
- *The owner also has the ability to exclude and include users from transfer fees and rewards. Decentralized exchanges are intended to be excluded.*

- *The contract utilizes the SafeMath library to prevent overflows.*
- *Some gas optimizations can be achieved through marking functions external.*
- *We advise using compiler 0.6.12 instead of 0.6.2.*

Audit Findings Summary

- *No security issues were detected in the analysis.*
- *As with any presale, ensure trust in the team prior to investing. The team will have the ability to update tax rates.*
- *Date: March 9th, 2021*

EXTERNAL THREAT RESULTS

Vulnerability Category	Notes	Result
Arbitrary Storage Write	N/A	PASS
Arbitrary Jump	N/A	PASS
Delegate Call to Untrusted Contract	N/A	PASS
Dependence on Predictable Variables	N/A	PASS
Deprecated Opcodes	N/A	PASS
Ether Thief	N/A	PASS
Exceptions	N/A	PASS
External Calls	N/A	PASS
Flash Loans	N/A	PASS
Integer Over/Underflow	N/A	PASS
Multiple Sends	N/A	PASS
Oracles	N/A	PASS
Suicide	N/A	PASS

Vulnerability Category	Notes	Result
Unchecked Retval	N/A	PASS
User Supplied Assertion	N/A	PASS
Critical Solidity Compiler	N/A	PASS
Overall Contract Safety		PASS
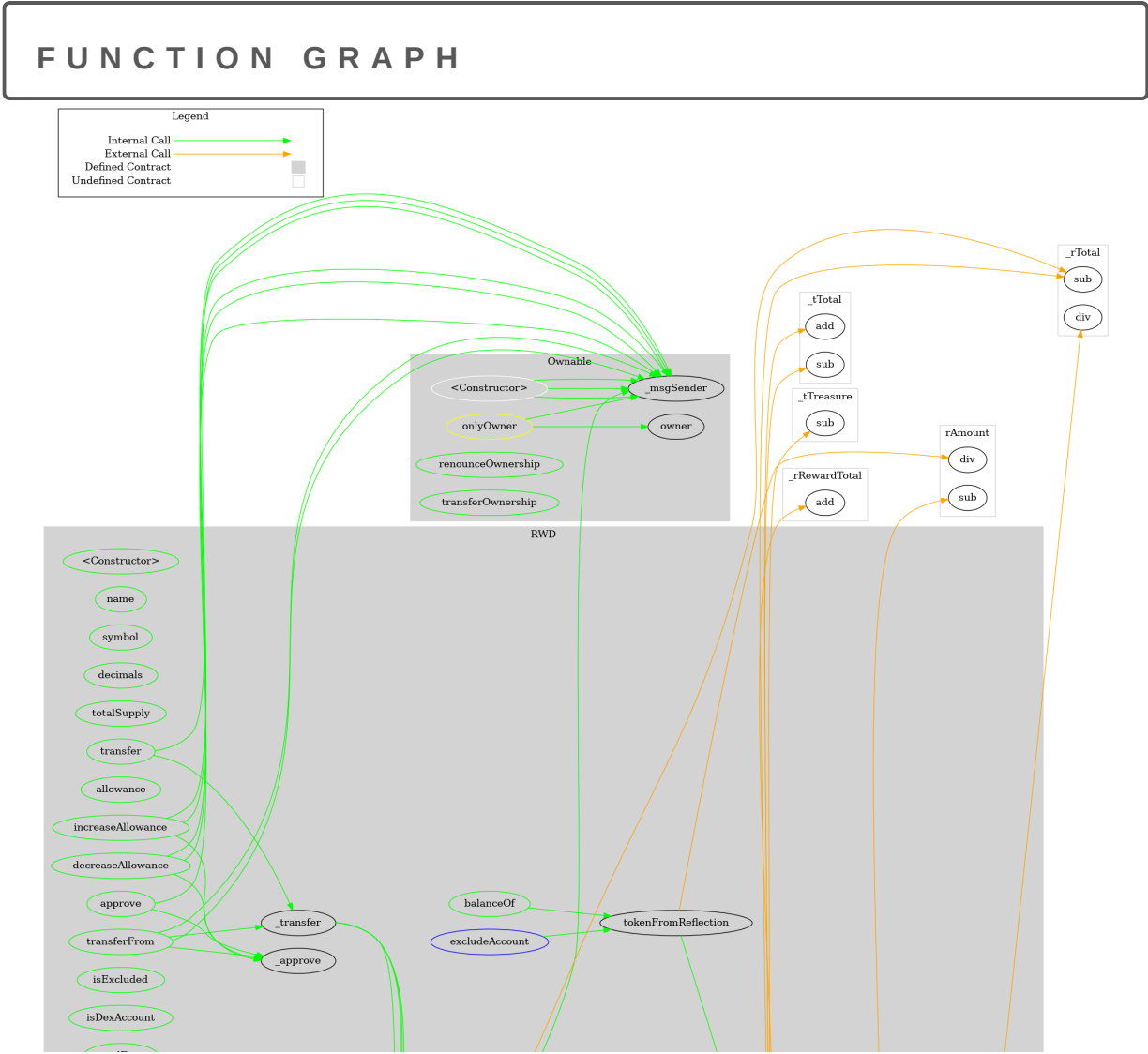
FUNCTION GRAPH

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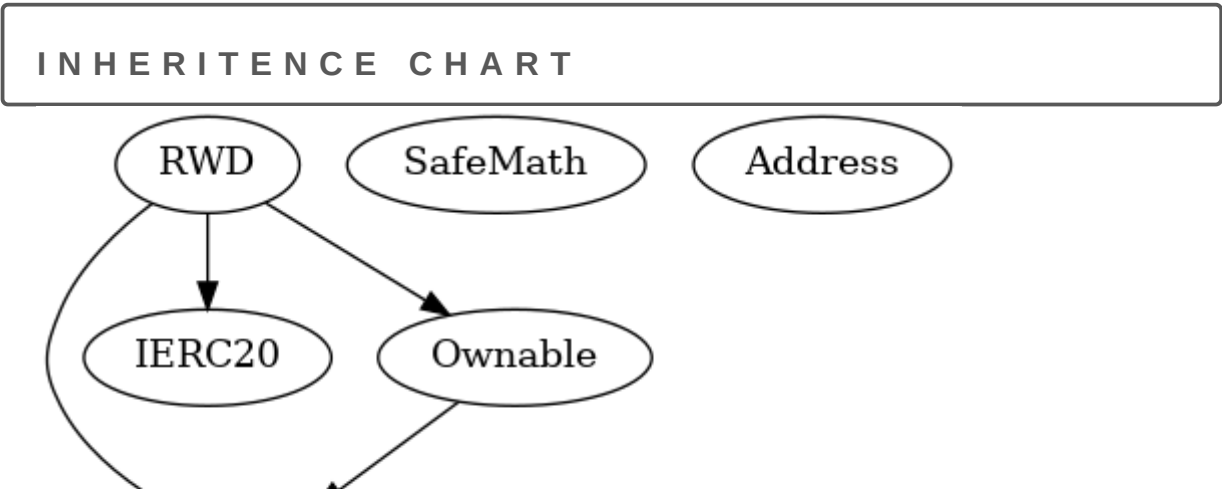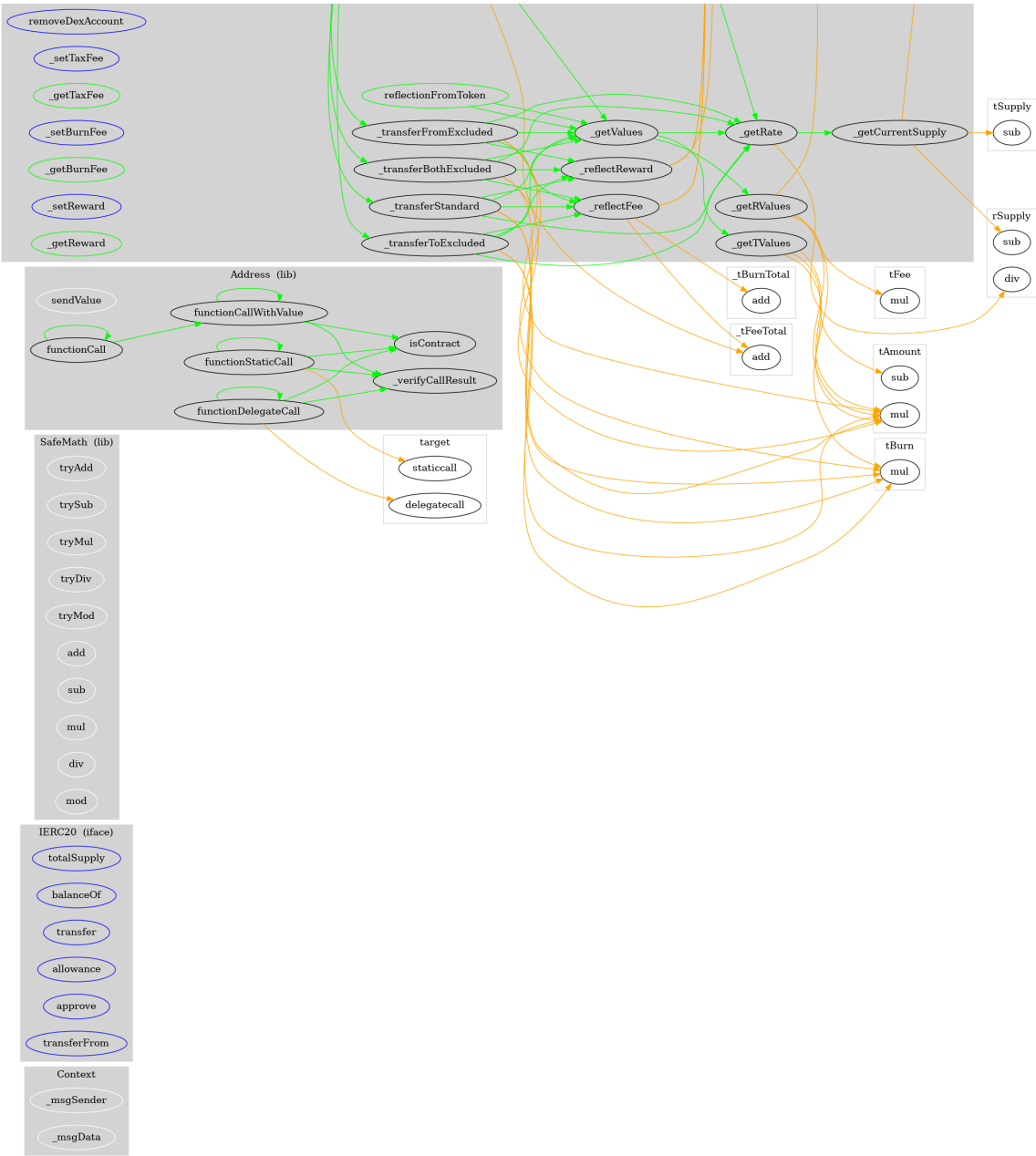
INHERITENCE CHART

FUNCTIONS OVERVIEW

```
($) = payable function
 # = non-constant function


 +  Context
    - [Int] _msgSender
    - [Int] _msgData


 + [Int] IERC20
    - [Ext] totalSupply
    - [Ext] balanceOf
    - [Ext] transfer #
    - [Ext] allowance
    - [Ext] approve #
    - [Ext] transferFrom #


 + [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] isContract
              - [Int] sendValue #
              - [Int] functionCall #
              - [Int] functionCall #
              - [Int] functionCallWithValue #
              - [Int] functionCallWithValue #
              - [Int] functionStaticCall
              - [Int] functionStaticCall
              - [Int] functionDelegateCall #
              - [Int] functionDelegateCall #
              - [Prv] _verifyCallResult


        +   Ownable (Context)
              - [Int]   #
              - [Pub] owner
              - [Pub] renounceOwnership #
                  - modifiers: onlyOwner
              - [Pub] transferOwnership #
                  - modifiers: onlyOwner


        +   RWD (Context, IERC20, Ownable)
              - [Pub]   #
              - [Pub] name
              - [Pub] symbol
              - [Pub] decimals
              - [Pub] totalSupply
              - [Pub] balanceOf
              - [Pub] transfer #
              - [Pub] allowance
              - [Pub] approve #
              - [Pub] transferFrom #
```

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```
    - [Pub] isDexAccount
    - [Pub] totalFees
    - [Pub] totalBurn
    - [Pub] treasure
    - [Pub] totalReward
    - [Pub] reflect #
    - [Pub] reflectionFromToken
    - [Pub] tokenFromReflection
    - [Ext] excludeAccount #
        - modifiers: onlyOwner
    - [Ext] includeAccount #
        - modifiers: onlyOwner
    - [Ext] addDexAccount #
        - modifiers: onlyOwner
    - [Ext] removeDexAccount #
        - modifiers: onlyOwner
    - [Prv] _approve #
    - [Prv] _transfer #
    - [Prv] _transferStandard #
    - [Prv] _transferToExcluded #
    - [Prv] _transferFromExcluded #
    - [Prv] _transferBothExcluded #
    - [Prv] _reflectFee #
    - [Prv] _reflectReward #
    - [Prv] _getValues
    - [Prv] _getTValues
    - [Prv] _getRValues
    - [Prv] _getRate
    - [Prv] _getCurrentSupply
    - [Ext] _setTaxFee #
        - modifiers: onlyOwner
```

```
- [Pub] _getBurnFee
- [Ext] _setReward #
    - modifiers: onlyOwner
- [Pub] _getReward
```

SOURCE CODE

Click here to download the source code as a .sol file.

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