

### REPORT 609B63EB556A8D0011DE1461

Created Wed May 12 2021 05:13:15 GMT+0000 (Coordinated Universal Time)

Number of analyses 1

User 609b61c3e7c926a8cc011f6b

# REPORT SUMMARY

Analyses ID	Main source file	Detected
		vulnerabilities

4c9db1c4-c731-4914-accf-f562e9aa4bda

Token.sol

6

Started Wed May 12 2021 05:13:17 GMT+0000 (Coordinated Universal Time)

Finished Wed May 12 2021 05:58:35 GMT+0000 (Coordinated Universal Time)

Mode Deep

Client Tool Remythx

Main Source File Token.Sol

## **DETECTED VULNERABILITIES**

(HIGH (MEDIUM (LOW

0 1 5

**ISSUES** 

MEDIUM

#### Incorrect ERC20 implementation

Contract "BasicTaxableToken" looks like its trying to implement the ERC20 standard, but its missing a required event with signature "event Approval(address indexed, address indexed, uint256)"

SWC-000

Source file Token.sol

Locations

```
* @dev Basic version of StandardToken, with no allowances
68
69
    contract BasicTaxableToken is ERC20Basic |
    using SafeMath for uint256;
71
    mapping(address => uint256) balances;
73
74
    uint256 totalSupply_;
75
    uint256 taxRateDivisor_;
77
78
     * @dev total number of tokens in existence
79
80
     function totalSupply() public view returns (uint256) {
    return totalSupply_;
82
83
84
    function _transfer (
85
86
87
    uint256 _value
88
89
    returns (bool)
91
92
    uint256 _tax = _value.div(taxRateDivisor_);
93
    uint256 _valueAfterTax = _value.sub(_tax);
94
95
    balances[_from] = balances[_from].sub(_value);
96
    balances[_to] = balances[_to].add(_valueAfterTax);
98
    emit Transfer(_from, _to, _valueAfterTax);
    100
    return true;
101
102
103
104
    * Odev transfer token for a specified address

* Oparam _to The address to transfer to.

* Oparam _value The amount to be transferred.
105
107
108
     function transfer(address _to, uint256 _value) public returns (bool) {
109
110
    require(_to != address(0));
111
    require(_value <= balances[msg sender]);</pre>
112
    return _transfer(msg.sender, _to, _value);
113
114
115
116
    f^* Odev Gets the balance of the specified address.
     st @param _owner The address to query the the balance of.
118
     * @return An uint256 representing the amount owned by the passed address.
119
120
    function balanceOf(address _owner) public view returns (uint256) {
    return balances[_owner];
```

```
123 | 124 | 125 | 126 | /**
```

### LOW A floating pragma is set.

SWC-103

The current pragma Solidity directive is ""^0.4.23"". It is recommended to specify a fixed compiler version to ensure that the bytecode produced does not vary between builds. This is especially important if you rely on bytecode-level verification of the code.

Source file

Token.sol

Locations

#### LOW State variable visibility is not set.

It is best practice to set the visibility of state variables explicitly. The default visibility for "balances" is internal. Other possible visibility settings are public and private.

SWC-108

Source file

Token.sol

Locations

```
viint 256 total Supply_;
viint 256 total Supply_;
viint 256 total Supply_;
```

## LOW State variable visibility is not set.

It is best practice to set the visibility of state variables explicitly. The default visibility for "totalSupply\_" is internal. Other possible visibility settings are public and private.

SWC-108

Source file Token.sol

Locations

```
mapping(address => uint256) balances;

uint256 totalSupply_;

uint256 taxRateDivisor_;
```

LOW

State variable visibility is not set.

It is best practice to set the visibility of state variables explicitly. The default visibility for "taxRateDivisor\_" is internal. Other possible visibility settings are public and private.

SWC-108

Source file

Token.sol

```
Locations
```

LOW

An assertion violation was triggered.

SWC-110

It is possible to cause an assertion violation. Note that Solidity assert() statements should only be used to check invariants. Review the transaction trace generated for this issue and either make sure your program logic is correct, or use require() instead of assert() if your goal is to constrain user inputs or enforce preconditions. Remember to validate inputs from both callers (for instance, via passed arguments) and callees (for instance, via return values).

Source file

Token.sol

Locations

```
function add(uint256 a, uint256 b) internal pure returns (uint256 c) {

c = a + b;

assert c >= a;

return c;
}
```