Security Audit

Name: HolidayCoin

Date: 04/28/2021

Contract: https://bscscan.com/address/0x61e068aa6c53b0b6d15eE134e94561090080fE0a

https://lemonsec.com

LemonSec

Issues Checking Status

Compiler Errors: **PASSED**

Race conditions: **PASSED**

Possible delays in data delivery: **PASSED**

Oracle calls: **PASSED**

Front running: **PASSED**

Timestamp dependence: **PASSED**

Integer Overflow and Underflow: **PASSED**

DoS with Revert: **PASSED**

Economy model of the contract: **PASSED**

Methods execution permissions: **PASSED**

DoS with block gas limit: **2 LOW ISSUES**

The impact of the exchange rate on the logic: **PASSED**

Private user data leaks: **PASSED**

Malicious Event log: **PASSED**

Issues Checking Status

Scoping and Declarations: **PASSED**

Uninitialized storage pointers: **PASSED**

Arithmetic accuracy: **PASSED**

Design Logic: **PASSED**

Cross-function race conditions: **PASSED**

Fallback function security: **PASSED**

Security Issues

CriticalSeverity Issues: 0

High Severity Issues: 0

Medium Severity Issues: 0

Low Severity Issues: 2

The function **includeInReward()** uses the loop to find and remove addresses from the **_isExcluded** list. Function will be aborted with OUT_OF_GAS exception if there will be a long excluded addresses list.

```
function includeInReward(address account) external onlyOwner() {
    require(_isExcluded[account], "Account is already excluded");
    for (uint256 i = 0; i < _excluded.length; i++) {
        if (_excluded[i] == account) {
            _excluded[i] = _excluded[_excluded.length - 1];
            _tOwned[account] = 0;
            _isExcluded[account] = false;
            _excluded.pop();
            break;
        }
    }
}
```

Security Issues

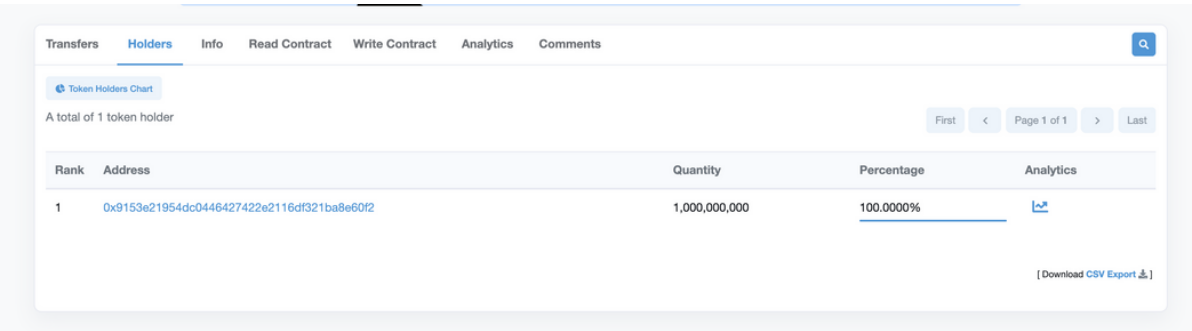
The function **_getCurrentSupply** also uses the loop for evaluating total supply. It also could be aborted with OUT_OF_GAS exception if there will be a long excluded addresses list.

```
function _getCurrentSupply() private view returns (uint256, uint256) {
    uint256 rSupply = _rTotal;
    uint256 tSupply = _tTotal;
    for (uint256 i = 0; i < _excluded.length; i++) {
        if (_rOwned[_excluded[i]] > rSupply || _tOwned[_excluded[i]] > tSupply) return (_rTotal, _tTotal);
        rSupply = rSupply.sub(_rOwned[_excluded[i]]);
        tSupply = tSupply.sub(_tOwned[_excluded[i]]);
    }
    if (rSupply < _rTotal.div(_tTotal)) return (_rTotal, _tTotal);
    return (rSupply, tSupply);
}
```

Recommendation:

Use EnumerableSet instead of array or do not use long arrays.

Token Holders



Conclusion

No vulnerabilities were found.
No Backdoors or Scam Scripts found.
The Smart Contract is Safe to use in the Binance Smart Chain.

REMEMBER: This REPORT is APPROVED only on BSC Contract listed on First Page.

If you are interested in Auditing your project contact us on:

https://t.me/lemonsec

https://lemonsec.com

https://twitter.com/lemon_sec