



Smart Contract Security Audit

TechRate
June, 2021

Audit Details



Audited project

AQUAGON



Deployer address

0xe332a6532162F0958F2EF6613702e32C8aAdEc42



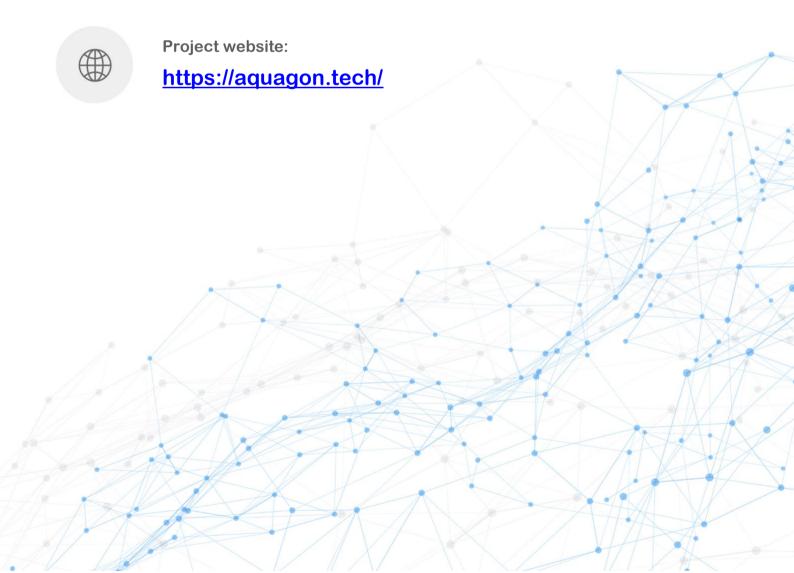
Client contacts:

AQUAGON team



Blockchain

Binance Smart Chain



Disclaimer

This is a limited report on our findings based on our analysis, in accordance with good industry practice as at the date of this report, in relation to cybersecurity vulnerabilities and issues in the framework and algorithms based on smart contracts, the details of which are set out in this report. In order to get a full view of our analysis, it is crucial for you to read the full report. While we have done our best in conducting our analysis and producing this report, it is important to note that you should not rely on this report and cannot claim against us on the basis of what it says or doesn't say, or how we produced it, and it is important for you to conduct your own independent investigations before making any decisions. We go into more detail on this in the below disclaimer below – please make sure to read it in full.

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The analysis of the security is purely based on the smart contracts alone. No applications or operations were reviewed for security. No product code has been reviewed.

Background

TechRate was commissioned by AQUAGON to perform an audit of smart contracts:

https://bscscan.com/address/0x28fb3c6bbebd300d2a0fefc1dbf3ca83dd6b99ba#code

The purpose of the audit was to achieve the following:

- Ensure that the smart contract functions as intended.
- Identify potential security issues with the smart contract.

The information in this report should be used to understand the risk exposure of the smart contract, and as a guide to improve the security posture of the smart contract by remediating the issues that were identified.

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Contracts Details

Token contract details for 12.06.2021

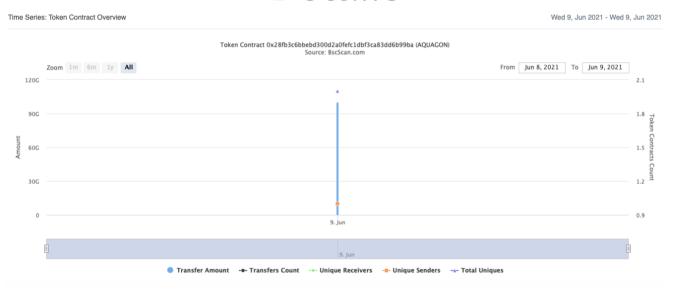
Contract name AQUAGON Contract address 0x28fb3c6BBeBd300d2a0Fefc1dbf3Ca83dd6b99bA Total supply 100,000,000 Token ticker AQUAGON
Total supply 100,000,000
Token ticker AQUAGON
Decimals 9
Token holders 2
Transactions count 19
Top 100 holders dominance 100.00%
Tax fee 500
Total fees 0
Contract deployer address 0xe332a6532162F0958F2EF6613702e32C8aAdEc42
Contract's current owner address 0xe332a6532162F0958F2EF6613702e32C8aAdEc42

AQUAGON Token Distribution



 $(A\ total\ of\ 100,000,000,000.00\ tokens\ held\ by\ the\ top\ 100\ accounts\ from\ the\ total\ supply\ of\ 100,000,000,000.00\ token)$

AQUAGON Contract Interaction Details



AQUAGON Top 10 Token Holders

Rank	Address	Quantity (Token)	Percentage
1	₫ 0x0f6402abcf4cbce51d5c6e8fe620fb67d7d49cc2	79,560,000,000	79.5600%
2	₫ 0x7536592bb74b5d62eb82e8b93b17eed4eed9a85c	20,440,000,000	20.4400%



Contract functions details

+ Context - [Int] _msgSender - [Int] msgData + [Int] IBEP20 - [Ext] totalSupply - [Ext] balanceOf - [Ext] transfer # - [Ext] allowance - [Ext] approve # - [Ext] transferFrom # + [Lib] SafeMath - [Int] add - [Int] sub - [Int] sub - [Int] mul - [Int] div - [Int] div - [Int] mod - [Int] mod + [Lib] Address - [Int] isContract - [Int] sendValue # - [Int] functionCall # - [Int] functionCall # - [Int] functionCallWithValue # - [Int] functionCallWithValue # - [Prv] _functionCallWithValue # + Ownable (Context) - [Pub] owner - [Pub] renounceOwnership # - modifiers: onlvOwner - [Pub] transferOwnership # - modifiers: onlyOwner + CoinToken (Context, IBEP20, Ownable) - [Pub] <Constructor> (\$) - [Pub] name - [Pub] symbol - [Pub] decimals - [Pub] totalSupply - [Pub] balanceOf - [Pub] transfer # - [Pub] allowance - [Pub] approve # - [Pub] transferFrom # - [Pub] increaseAllowance

- [Pub] decreaseAllowance #

- [Pub] isExcluded
- [Pub] totalFees
- [Pub] totalBurn
- [Pub] totalCharity
- [Pub] deliver #
- [Pub] reflectionFromToken
- [Pub] tokenFromReflection
- [Ext] excludeAccount #
 - modifiers: onlyOwner
- [Ext] includeAccount #
 - modifiers: onlyOwner
- [Ext] setAsCharityAccount #
 - modifiers: onlyOwner
- [Pub] updateFee #
 - modifiers: onlyOwner
- [Prv] _approve #
- [Prv] _transfer #
- [Prv] _transferStandard #
- [Prv] _standardTransferContent #
- [Prv] _transferToExcluded #
- [Prv] excludedFromTransferContent #
- [Prv] _transferFromExcluded #
- [Prv] excludedToTransferContent #
- [Prv] _transferBothExcluded #
- [Prv] bothTransferContent#
- [Prv] _reflectFee #
- [Prv] getValues
- [Prv] _getTBasics
- [Prv] getTTransferAmount
- [Prv] getRBasics
- [Prv] getRTransferAmount
- [Prv] getRate
- [Prv] _getCurrentSupply
- [Prv] sendToCharity#
- [Prv] removeAllFee #
- [Prv] restoreAllFee #
- [Prv] _getTaxFee
- (\$) = payable function # = non-constant function

Issues Checking Status

Issue description	Checking status
1. Compiler errors.	Passed
2. Race conditions and Reentrancy. Cross-function race conditions.	Passed
3. Possible delays in data delivery.	Passed
4. Oracle calls.	Passed
5. Front running.	Passed
6. Timestamp dependence.	Passed
7. Integer Overflow and Underflow.	Passed
8. DoS with Revert.	Passed
9. DoS with block gas limit.	Low issues
10. Methods execution permissions.	Passed
11. Economy model of the contract.	Passed
12. The impact of the exchange rate on the logic.	Passed
13. Private user data leaks.	Passed
14. Malicious Event log.	Passed
15. Scoping and Declarations.	Passed
16. Uninitialized storage pointers.	Passed
17. Arithmetic accuracy.	Passed
18. Design Logic.	Passed
19. Cross-function race conditions.	Passed
20. Safe Open Zeppelin contracts implementation and usage.	Passed
21. Fallback function security.	Passed

Security Issues

High Severity Issues

No high severity issues found.

✓ Medium Severity Issues

No medium severity issues found.

- Low Severity Issues
 - 1. Out of gas

Issue:

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

 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) {
    firace|funcSig
    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]]);
        ftrace|funcSig
        tSupply = tSupply.sub(_tOwned[_excluded[i]]);
    }
    if (rSupply < _rTotal.div(_tTotal)) return (_rTotal, _tTotal);
    return (rSupply, tSupply);
    ftrace|funcSig
}</pre>
```

Recommendation:

Check that the excluded array length is not too big.

Owner privileges (In the period when the owner is not renounced)

Owner can change charity address.

```
ftrace|funcSig
function setAsCharityAccount(address account 1) external onlyOwner() {
    FeeAddress = account 1;
}
```

• Owner can change fees.

```
function updateFee(uint256 _txFee,uint256 _burnFee,uint256 _charityFee) onlyOwner() public{
    _TAX_FEE = _txFee* 100;
    _BURN_FEE = _burnFee * 100;
    _CHARITY_FEE = _charityFee* 100;
    ORIG_TAX_FEE = _TAX_FEE;
    ORIG_BURN_FEE = _BURN_FEE;
    ORIG_CHARITY_FEE = _CHARITY_FEE;
}
```

Conclusion

Smart contracts contain low severity issues! Liquidity pair contract's security is not checked due to out of scope.

Liquidity locking details provided by the team:

https://team.finance/view-

coin/0x28fb3c6BBeBd300d2a0Fefc1dbf3Ca83dd6b99bA?name=AQ **UAGON&symbol=AQUAGON**

TechRate note:

Please check the disclaimer above and note, the audit makes no statements or warranties on business model, investment attractiveness or code sustainability. The report is provided for the only contract mentioned in the report and does not include any other potential contracts deployed by Owner.



