



TechRate
AUDIT COMPANY

Smart Contract Security Audit

TechRate

June, 2021

Audit Details



Audited project

EMERGENCY ELON OVERRIDE



Deployer address

0xf103d2AbA493749a402B7dE11cF31f5844062B74



Client contacts:

EMERGENCY ELON OVERRIDE team



Blockchain

Binance Smart Chain



Project website:

<https://emergencyelonoverride.org>

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 EMERGENCY ELON OVERRIDE to perform an audit of smart contracts:

<https://bscscan.com/address/0x34039ce53365ee32205785a964a6b88cae871d81#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.

Contracts Details

Token contract details for 16.06.2021

Contract name	EMERGENCY ELON OVERRIDE
Contract address	0x34039CE53365Ee32205785a964A6B88CAE871d81
Total supply	6,900,000,000
Token ticker	EEO
Decimals	9
Token holders	18
Transactions count	69
Top 100 holders dominance	100.00%
Liquidity fee	6
Tax fee	3
Total fees	19476482134704
Uniswap V2 pair	0xfa10fc54e5acd68fe10294f84a113924c7170640
Contract deployer address	0xf103d2AbA493749a402B7dE11cF31f5844062B74
Contract's current owner address	0xa7a261dedf637c0afcdb6bef9c8c9e6f86e86b98

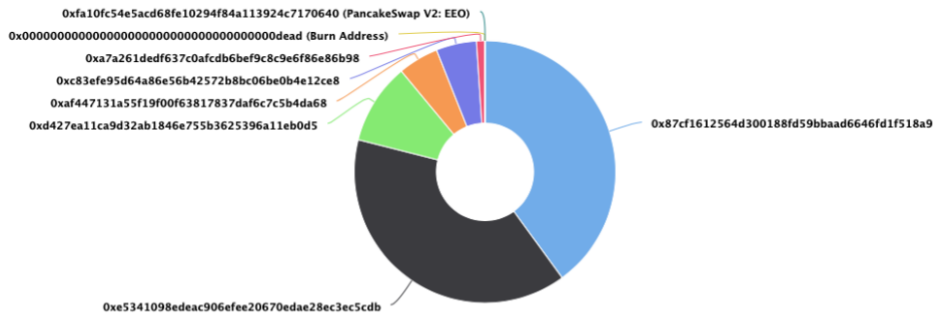
EMERGENCY ELON OVERRIDE Token Distribution

The top 100 holders collectively own 100.00% (6,899,956,180.81 Tokens) of Emergency Elon Override

Token Total Supply: 6,900,000,000.00 Token | Total Token Holders: 18

Emergency Elon Override Top 100 Token Holders

Source: BscScan.com



(A total of 6,899,956,180.81 tokens held by the top 100 accounts from the total supply of 6,900,000,000.00 token)

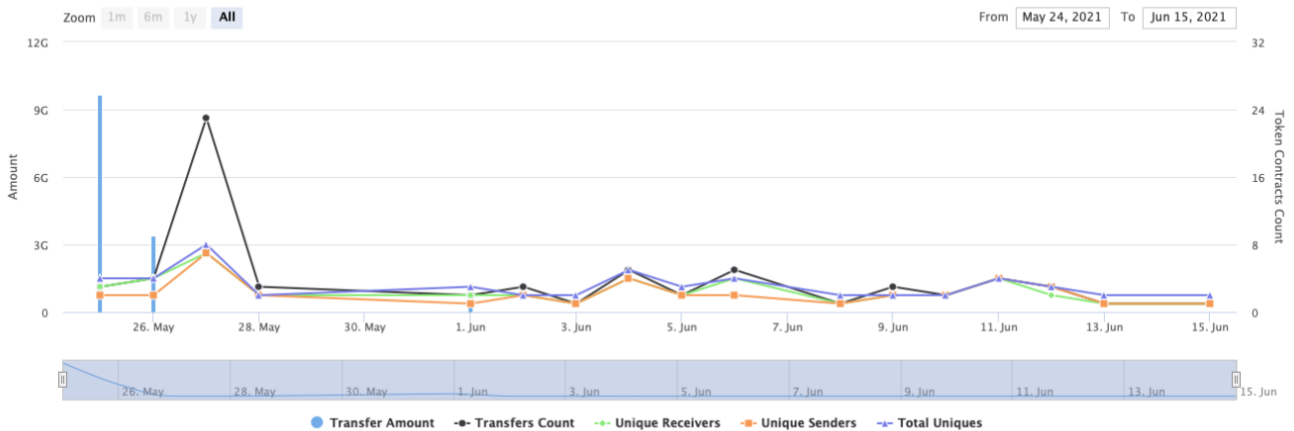
EMERGENCY ELON OVERRIDE Contract Interaction Details

Time Series: Token Contract Overview

Tue 25, May 2021 - Tue 15, Jun 2021


Token Contract 0x34039ce53365ee32205785a964a6b88cae871d81 (Emergency Elon Override)

Source: BscScan.com





EMERGENCY ELON OVERRIDE

Top 10 Token Holders

Rank	Address	Quantity (Token)	Percentage
1	0x87cf1612564d300188fd59bbaad6646fd1f518a9	2,757,246,022.212049641	39.9601%
2	0xe5341098edeac906efee20670edae28ec3ec5cdb	2,690,705,929.908502182	38.9957%
3	0xd427ea11ca9d32ab1846e755b3625396a11eb0d5	690,000,000	10.0000%
4	0xaf447131a55f19f00f63817837daf6c7c5b4da68	345,000,000	5.0000%
5	0xc83efe95d64a86e56b42572b8bc06be0b4e12ce8	345,000,000	5.0000%
6	0xa7a261dedf637c0afcdb6bef9c8c9e6f86e86b98	69,001,570.560368631	1.0000%
7	Burn Address	2,760,000	0.0400%
8	 PancakeSwap V2: EEO	144,847.042586174	0.0021%
9	0x6e2fd7801c09cb23f092dc52928e9eb6c7fa2bfc	48,521.965482509	0.0007%
10	0x880818d879ec0d2acb2563a167b4d3ab39b8df70	17,258.837787339	0.0003%

EMERGENCY ELON OVERRIDE

LP Token Holders

Rank	Address	Quantity	Percentage
1	 0xeb3a9c56d963b971d320f889be2fb8b59853e449	0.039194935720094987	<u>71.6869%</u>
2	0x6e2fd7801c09cb23f092dc52928e9eb6c7fa2bfc	0.005422702422168498	<u>9.9180%</u>
3	0x1ebe98c09bcc0fa498076cd8c716d903ffc1fdea	0.002714472949162833	<u>4.9647%</u>
4	0x0744976a89c4a91c9918db8af4110481a8bd29a5	0.002692134464195743	<u>4.9239%</u>
5	0x880818d879ec0d2acb2563a167b4d3ab39b8df70	0.002116374073593898	<u>3.8708%</u>
6	0x070653b1a68c0598b5b4f0a876f207a4ee78657f	0.001884338402981026	<u>3.4464%</u>
7	0x440ba94ee12a981bd1d323d8eebabbac99b5ed6	0.000405666146453104	<u>0.7420%</u>
8	0x9fccf8dcdd534aaff4741af583cdf9077b49f01	0.000119539590855923	<u>0.2186%</u>
9	0x79903589b7939b37b37cdc3dea7dca6f0ac161d3	0.000105276777164351	<u>0.1925%</u>
10	0x07d80ae6f36a5e08dca74ce884a24d39db9934ed	0.000019698409999944	<u>0.0360%</u>
11	 0x00	0.000000000000001	<u>0.0000%</u>

Contract functions details

- + [Int] IERC20
 - [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
- + Context
 - [Int] _msgSender
 - [Int] _msgData
- + [Lib] Address
 - [Int] isContract
 - [Int] sendValue #
 - [Int] functionCall #
 - [Int] functionCall #
 - [Int] functionCallWithValue #
 - [Int] functionCallWithValue #
 - [Prv] _functionCallWithValue #
- + Ownable (Context)
 - [Pub] owner
 - [Pub] renounceOwnership #
 - modifiers: onlyOwner
 - [Pub] transferOwnership #
 - modifiers: onlyOwner
 - [Pub] geUnlockTime
 - [Pub] lock #
 - modifiers: onlyOwner
 - [Pub] unlock #
- + [Int] IUniswapV2Factory
 - [Ext] feeTo
 - [Ext] feeToSetter
 - [Ext] getPair
 - [Ext] allPairs
 - [Ext] allPairsLength
 - [Ext] createPair #
 - [Ext] setFeeTo #
 - [Ext] setFeeToSetter #


```
+ [Int] IUniswapV2Pair
- [Ext] name
- [Ext] symbol
- [Ext] decimals
- [Ext] totalSupply
- [Ext] balanceOf
- [Ext] allowance
- [Ext] approve #
- [Ext] transfer #
- [Ext] transferFrom #
- [Ext] DOMAIN_SEPARATOR
- [Ext] PERMIT_TYPEHASH
- [Ext] nonces
- [Ext] permit #
- [Ext] MINIMUM_LIQUIDITY
- [Ext] factory
- [Ext] token0
- [Ext] token1
- [Ext] getReserves
- [Ext] price0CumulativeLast
- [Ext] price1CumulativeLast
- [Ext] kLast
- [Ext] mint #
- [Ext] burn #
- [Ext] swap #
- [Ext] skim #
- [Ext] sync #
- [Ext] initialize #
```

```
+ [Int] IUniswapV2Router01
- [Ext] factory
- [Ext] WETH
- [Ext] addLiquidity #
- [Ext] addLiquidityETH ($)
- [Ext] removeLiquidity #
- [Ext] removeLiquidityETH #
- [Ext] removeLiquidityWithPermit #
- [Ext] removeLiquidityETHWithPermit #
- [Ext] swapExactTokensForTokens #
- [Ext] swapTokensForExactTokens #
- [Ext] swapExactETHForTokens ($)
- [Ext] swapTokensForExactETH #
- [Ext] swapExactTokensForETH #
- [Ext] swapETHForExactTokens ($)
- [Ext] quote
- [Ext] getAmountOut
- [Ext] getAmountIn
- [Ext] getAmountsOut
- [Ext] getAmountsIn
```

```
+ [Int] IUniswapV2Router02 (IUniswapV2Router01)
- [Ext] removeLiquidityETHSupportingFeeOnTransferTokens #
- [Ext] removeLiquidityETHWithPermitSupportingFeeOnTransferTokens #
- [Ext] swapExactTokensForTokensSupportingFeeOnTransferTokens #
```

- [Ext] swapExactETHForTokensSupportingFeeOnTransferTokens (\$)
- [Ext] swapExactTokensForETHSupportingFeeOnTransferTokens #

+ CoinToken (Context, IERC20, 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] isExcludedFromReward
- [Pub] totalFees
- [Pub] deliver #
- [Pub] reflectionFromToken
- [Pub] tokenFromReflection
- [Pub] excludeFromReward #
 - modifiers: onlyOwner
- [Ext] includeInReward #
 - modifiers: onlyOwner
- [Prv] _transferBothExcluded #
- [Pub] excludeFromFee #
 - modifiers: onlyOwner
- [Pub] includeInFee #
 - modifiers: onlyOwner
- [Ext] setTaxFeePercent #
 - modifiers: onlyOwner
- [Ext] setLiquidityFeePercent #
 - modifiers: onlyOwner
- [Pub] setNumTokensSellToAddToLiquidity #
 - modifiers: onlyOwner
- [Pub] setMaxTxPercent #
 - modifiers: onlyOwner
- [Pub] setSwapAndLiquifyEnabled #
 - modifiers: onlyOwner
- [Ext] <Fallback> (\$)
- [Prv] _reflectFee #
- [Prv] _getValues
- [Prv] _getTValues
- [Prv] _getRValues
- [Prv] _getRate
- [Prv] _getCurrentSupply
- [Prv] _takeLiquidity #
- [Pub] claimTokens #
 - modifiers: onlyOwner
- [Prv] calculateTaxFee
- [Prv] calculateLiquidityFee
- [Prv] removeAllFee #
- [Prv] restoreAllFee #
- [Pub] isExcludedFromFee

- [Prv] _approve #
- [Prv] _transfer #
- [Prv] swapAndLiquify #
 - modifiers: lockTheSwap
- [Prv] swapTokensForEth #
- [Prv] addLiquidity #
- [Prv] _tokenTransfer #
- [Prv] _transferStandard #
- [Prv] _transferToExcluded #
- [Prv] _transferFromExcluded #

(\$) = 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 `includeInReward()` 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.

```
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;
        }
    }
}
```

- 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:

Check that the excluded array length is not too big.

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

- Owner can change the tax and liquidity fee.

```
function setTaxFeePercent(uint256 taxFee) external onlyOwner() {
    _taxFee = taxFee;
}

function setLiquidityFeePercent(uint256 liquidityFee) external onlyOwner() {
    _liquidityFee = liquidityFee;
}
```

- Owner can change the maximum transaction amount.

```
function setMaxTxPercent(uint256 maxTxPercent) external onlyOwner() {
    _maxTxAmount = _tTotal.mul(maxTxPercent).div(
        10**2
    );
}
```

- Owner can exclude from the fee.

```
function excludeFromFee(address account) public onlyOwner {
    _isExcludedFromFee[account] = true;
}
```

- Owner can claim all tokens from contract balance.

```
ftrace | funcSig
function claimTokens() public onlyOwner {
    payable(_owner).transfer(address(this).balance);
}
```

- Owner can change numTokensSellToAddToLiquidity.

```
ftrace | funcSig
function setNumTokensSellToAddToLiquidity(uint256 swapNumber) public onlyOwner {
    numTokensSellToAddToLiquidity = swapNumber * 10 ** _decimals;
}
```


- Owner can lock and unlock. By the way, using these functions the owner could leave as owner even after the ownership was renounced.

```
//Locks the contract for owner for the amount of time provided
function lock(uint256 time) public virtual onlyOwner {
    _previousOwner = _owner;
    _owner = address(0);
    _lockTime = now + time;
    emit OwnershipTransferred(_owner, address(0));
}

//Unlocks the contract for owner when _lockTime is exceeds
function unlock() public virtual {
    require(_previousOwner == msg.sender, "You don't have permission to unlock");
    require(now > _lockTime , "Contract is locked until 7 days");
    emit OwnershipTransferred(_owner, _previousOwner);
    _owner = _previousOwner;
}
```

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://dxsale.app/app/pages/dxlockview?id=0&add=0xe5341098eDeAC906Efee20670eDAe28EC3Ec5cDb&type=lplock&chain=BSC>

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.