



Smart Contract Security Audit

<u>TechRate</u> August, 2021

Audit Details



Audited project

DAIKOKUTEN SAMA



Deployer address

0xC904988723de486C38be9d8FcD82710eaE6267A7



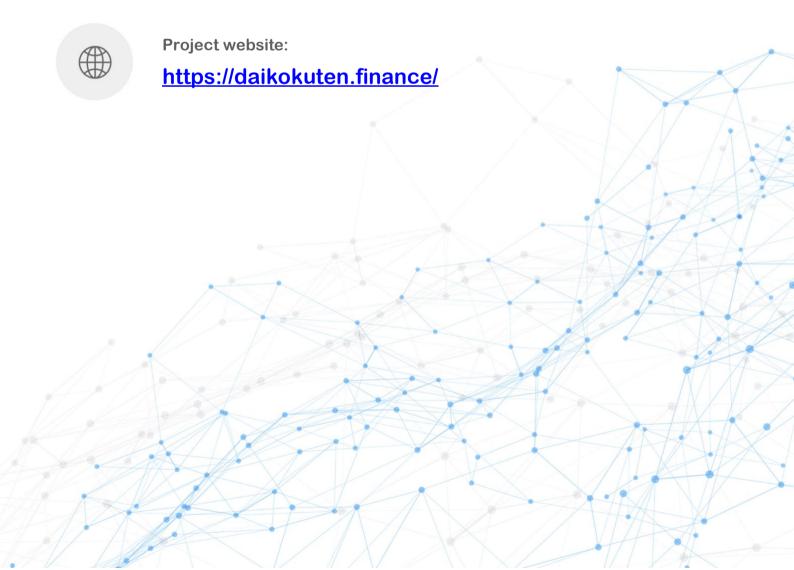
Client contacts:

DAIKOKUTEN SAMA 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 DAIKOKUTEN SAMA to perform an audit of smart contracts:

https://bscscan.com/address/0x834613c64522725b23b458af04ed1590d189962f#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 16.08.2021

Contract name	DKKS
Contract address	0x834613c64522725b23b458aF04ED1590D189962F
Total supply	1,000,000,000,000
Token ticker	DKKS
Decimals	9
Token holders	424
Transactions count	1,617
Top 100 holders dominance	99.43%
Liquidity fee	7
Tax fee	3
Total fees	15154526142171029294628
Uniswap V2 pair	0x7564b5b56c20f6240bdb596e4f63708032595dde
Contract deployer address	0xC904988723de486C38be9d8FcD82710eaE6267A7
Contract's current owner address	0xC904988723de486C38be9d8FcD82710eaE6267A7

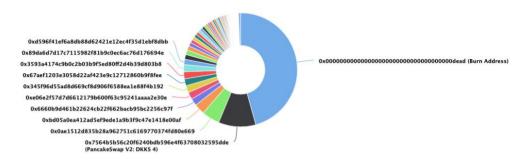
DAIKOKUTEN SAMA Token Distribution

The top 100 holders collectively own 99.43% (994,329,445,221,534.00 Tokens) of DAIKOKUTEN SAMA

Token Total Supply: 1,000,000,000,000,000.00 Token | Total Token Holders: 424

DAIKOKUTEN SAMA Top 100 Token Holders

Source: BscScan.com

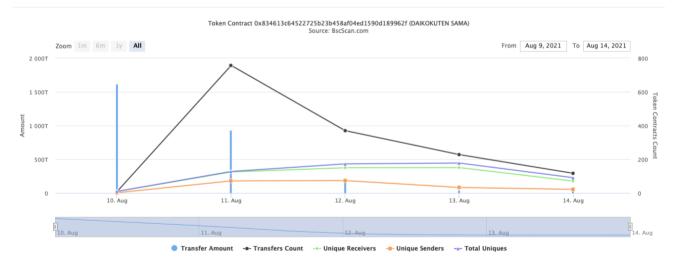


(A total of 994,329,445,221,534.00 tokens held by the top 100 accounts from the total supply of 1,000,000,000,000,000,000 token)

DAIKOKUTEN SAMA Contract Interaction Details

Time Series: Token Contract Overview

Tue 10, Aug 2021 - Sat 14, Aug 2021



DAIKOKUTEN SAMA Top 10 Token Holders

Rank	Address	Quantity (Token)	Percentage
1	Burn Address	456,746,018,510,411.231953252	45.6746%
2	PancakeSwap V2: DKKS 4	106,157,893,593,646.116344573	10.6158%
3	0x0ae1512d835b28a962751c6169770374fd80e669	50,743,845,287,354.064062943	5.0744%
4	0xbd05a0ea412ad5ef9ede1a9b3f9c47e1418e00af	30,446,307,172,412.438437765	3.0446%
5	0x6660b9d461b22624cb22f662bacb95bc2256c97f	20,297,570,785,995.422318272	2.0298%
6	0xe06e2f57d7d6612179b600f63c95241aaaa2e30e	20,297,509,363,889.603204766	2.0298%
7	0x345f96d55ad8d669cf8d906f6588ea1e88f4b192	20,000,000,000,000	2.0000%
8	0x67aef1203e3058d22af423e9c12712860b9f8fee	20,000,000,000,000	2.0000%
9	0x3593a4174c9b0c2b03b9f5ed80ff2d4b39d803b8	20,000,000,000,000	2.0000%
10	0x89da6d7d17c7115982f81b9c0ec6ac76d176694e	20,000,000,000,000	2.0000%

Contract functions details

+ Context - [Int] _msgSender - [Int] msgData + [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 + [Lib] Address - [Int] isContract - [Int] sendValue # - [Int] functionCall # - [Int] functionCall # - [Int] functionCallWithValue # - [Int] functionCallWithValue # - [Prv] functionCallWithValue # + Ownable (Context) - [Pub] <Constructor> # - [Pub] owner - [Pub] renounceOwnership # - modifiers: onlyOwner - [Pub] transferOwnership # - modifiers: onlyOwner - [Pub] getUnlockTime - [Pub] getTime - [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] 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 #
- + DKKS (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] minimumTokensBeforeSwapAmount
 - [Pub] deliver #
 - [Pub] reflectionFromToken
 - [Pub] tokenFromReflection
 - [Pub] excludeFromReward #
 - modifiers: onlvOwner
 - [Ext] includeInReward #
 - modifiers: onlyOwner
 - [Prv] _approve #
 - [Prv] transfer #
 - [Prv] swapTokens #
 - modifiers: lockTheSwap
 - [Prv] swapTokensForEth #
 - [Prv] swapETHForTokens #
 - [Prv] addLiquidity #
 - [Prv] tokenTransfer #
 - [Prv] transferStandard #
 - [Prv] _transferToExcluded #
 - [Prv] transferFromExcluded #
 - [Prv] _transferBothExcluded #
 - [Prv] _reflectFee #
 - [Prv] _getValues
 - [Prv] _getTValues
 - [Prv] _getRValues
 - [Prv] _getRate
 - [Prv] _getCurrentSupply
 - [Prv] takeLiquidity#
 - [Prv] calculateTaxFee
 - [Prv] calculateLiquidityFee
 - [Prv] removeAllFee #
 - [Prv] restoreAllFee #
 - [Pub] isExcludedFromFee
 - [Pub] excludeFromFee #
 - modifiers: onlyOwner
 - [Pub] includeInFee #
 - modifiers: onlyOwner

```
- [Ext] setBuyTaxFeePercent #
 - modifiers: onlvOwner
- [Ext] setSellTaxFeePercent #
 - modifiers: onlyOwner
- [Ext] setBuyLiquidityFeePercent #
 - modifiers: onlyOwner
- [Ext] setSellLiquidityFeePercent#
 - modifiers: onlyOwner
- [Ext] setMaxTxAmount #
 - modifiers: onlyOwner
- [Ext] setMarketingDivisor #
 - modifiers: onlyOwner
- [Ext] setNumTokensSellToAddToLiquidity #
 - modifiers: onlyOwner
- [Ext] setMaxTokenHolder #
 - modifiers: onlyOwner
- [Ext] setMarketingAddress #
 - modifiers: onlyOwner
- [Pub] changeRouterVersion #
 - modifiers: onlyOwner
- [Pub] setSwapAndLiquifyEnabled #
 - modifiers: onlyOwner
- [Ext] prepareForPreSale #
 - modifiers: onlyOwner
- [Ext] goLive #
 - modifiers: onlyOwner
- [Pub] transferBatch #
- [Prv] transferToAddressETH#
```

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

- [Ext] <Fallback> (\$)

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.	Passed
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

No low severity issues found.

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

Owner can change buy/sell tax and liquidity fees.

Owner can change maximum transaction amount.

Owner can exclude from the fee.

```
function excludeFromFee(address account1) public onlyOwner {
    isExcludedFromFee[account1] = true;
}
```

Owner can change marketingDivisor.

```
ftrace|funcSig
function setMarketingDivisor(uint256 divisor↑) external onlyOwner() {
    marketingDivisor = divisor↑;
}
```

Owner can change minimum number of tokens to add to liquidity.

```
ftrace|funcSig
function setNumTokensSellToAddToLiquidity(uint256 _minimumTokensBeforeSwap 1) external onlyOwner() {
    minimumTokensBeforeSwap = _minimumTokensBeforeSwap 1;
}
```

Owner can change _maxTokenHolder value.

Owner can change marketing address.

Owner can change router address.

```
function changeRouterVersion(address _router1) public onlyOwner returns(address _pair1) {
    IUniswapV2Router02 _uniswapV2Router = IUniswapV2Router02(_router1);
    _pair1 = IUniswapV2Factory(_uniswapV2Router.factory()).getPair(address(this), _uniswapV2Router.WETH());
    if(_pair1 == address(0)){
        _pair1 = IUniswapV2Factory(_uniswapV2Router.factory())
        .createPair(address(this), _uniswapV2Router.WETH());
    }
    uniswapV2Pair = _pair1;
    uniswapV2Router = _uniswapV2Router;
}
```

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

Owner can enable presale and live setting presets.

```
function prepareForPreSale() external onlyOwner {
    setSwapAndLiquifyEnabled(false);
    _taxFee = 0;
    _liquidityFee = 0;
    _buyTaxFee = 0;
    _buyLiquidityFee = 0;
    _sellTaxFee = 0;
    _sellLiquidityFee = 0;
    marketingDivisor = 0;
    _maxTxAmount = 10000000000 * 10**6 * 10**9;
}
function goLive() external onlyOwner {
   setSwapAndLiquifyEnabled(true);
    _taxFee = 3;
    _previousTaxFee = _taxFee;
   _liquidityFee = 7;
    _previousLiquidityFee = _liquidityFee;
    _buyTaxFee = 1;
   _buyLiquidityFee = 3;
   _sellTaxFee = 3;
   _sellLiquidityFee = 7;
    marketingDivisor = 2;
    _{maxTxAmount} = 3000000 * 10**6 * 10**9;
```

Conclusion

Smart contracts contain low severity issues! Liquidity pair contract's security is not checked due to out of scope. The further transfers and operations with the funds raise are not related to this particular contract.

Liquidity locking details provided by the team: https://dxsale.app/app/v2 9/dxlockview?id=0&add=0xC904988723d e486C38be9d8FcD82710eaE6267A7&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.





