



0x6c637c67a1dc3dbe33872befb093617c3af22059





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Global Disclaimer

This document serves as a disclaimer for the crypto smart contract audit conducted by Skeleton Ecosystem. The purpose of the audit was to review the codebase of the smart contracts for potential vulnerabilities and issues. It is important to note the following:

Limited Scope: The audit is based on the code and information available up to the audit completion date. It does not cover external factors, system interactions, or changes made after the audit. The audit itself can not guarantee 100% safaty and can not detect common scam methods like farming and developer sell-out.

No Guarantee of Security: While we have taken reasonable steps to identify vulnerabilities, it is impossible to guarantee the complete absence of security risks or issues. The audit report provides an assessment of the contract's security as of the audit date.

Continued Development: Smart contracts and blockchain technology are evolving fields. Updates, forks, or changes to the contract post-audit may introduce new risks that were not present during the audit.

Third-party Code: If the smart contract relies on third-party libraries or code, those components were not thoroughly audited unless explicitly stated. Security of these dependencies is the responsibility of their respective developers.

Non-Exhaustive Testing: The audit involved automated analysis, manual review, and testing under controlled conditions. It is possible that certain vulnerabilities or issues may not have been identified.

Risk Evaluation: The audit report includes a risk assessment for identified vulnerabilities. It is recommended that the development team carefully reviews and addresses these risks to mitigate potential exploits.

Not Financial Advice: This audit report is not intended as financial or investment advice. Decisions regarding the use, deployment, or investment in the smart contract should be made based on a comprehensive assessment of the associated risks.

By accessing and using this audit report, you acknowledge and agree to the limitations outlined above. Skeleton Ecosystem and its auditors shall not be held liable for any direct or indirect damages resulting from the use of the audit report or the smart contract itself.

Please consult with legal, technical, and financial professionals before making any decisions related to the smart contract.



### Overview

Contract Name	SLAPPY CAT COIN
Ticker/Simbol	SLAPPYCAT
Blockchain	Binance Smart Chain Bep20
Contract Address	0x6c637c67a1dc3dbe33872befb093617c3af22059
Creator Address	0xC718D463d6ed2c915d07055DC298806fB5a7Dd5a
Current Owner Address	Renounced
Contract Explorer	https://bscscan.com/token/0x6c637c67a1dc3dbe33872 befb093617c3af22059
Compiler Version	v0.8.7+commit.e28d00a7
License	MIT License
Optimisation	Yes with 200 Runs
Total Supply	420,690,000,000,000 SLAPPYCAT
Decimals	9

### Creation/Audit

Contract Deployed	31 Jul 2023
Audit Created	20-Aug-23 09:00:00 UTC
Audit Update	V 0.1

### Verified Socials

Website	https://www.slappycatcoin.live/	
Telegram	https://t.me/SlappyCatCoinGlobal	
Х	https://twitter.com/SlappyCatCoin	



## Contract Function Analysis









Contract Verified	<b>~</b>	The contract source code is uploaded to blockchain explorer and is open source, so everybody can read it.
Contract Ownership	~	The ownership of the contract was sent to dead address. With this the owner eliminates he's rights to modify the contract. The owner can not set any of the functions anymore.
Buy Tax	0 %	Shows the taxes for purchase transactions. Above 10% may be considered a high tax rate. More than 50% tax rate means may not be tradable. Contract renounced so tax rate is fixed.
Sell Tax	6 %	Shows the taxes for sell transactions. Above 10% may be considered a high tax rate. More than 50% tax rate means may not be tradable. Contract renounced so tax rate is fixed.
Honeypot Analyse	~	Holder is able to buy and sell. If honeypot: The contract blocks sell transfer from holder wallet. Multiple events may cause honeypot. Trading disabled, extremely high tax
Liqudity	~	Locked on 20.08.2023: 98% for 349 days on Pinksale locker
Status		Note! Initial liqudity tokens scanned. For new LP Lockers allways re-check with skeleton scanner on telegram.
Trading		No trading suspendable function found.
Disable Functions		If a suspendable code is included, the token maybe neither be bought or sold (honeypot risk). If contract is renounced
		this function can't be used. A If there is authorised hidden owner, or there is Retrieve Ownership Function, the trading disable function may be used!
Set Fees	<b>✓</b>	No Fee Setting function found.
function		The contract owner may contain the authority to modify the transaction tax. If the transaction tax is increased to more than 49%, the tokens may not be able to be traded (honeypot risk). If contract is renounced this function can't be used.
		⚠ If there is authorised hidden owner, or there is Retrieve Ownership Function, the set fees function may be used!
Proxy Contract	<b>~</b>	The proxy contract means contract owner can modifiy the function of the token and possibly effect the price. The Owner is not the creator but the creator may have authorisation to change functions.
Mint	<b>~</b>	No mint function found.
Function		Mint function is transparent or non-existent. Hidden mint functions may increase the amount of tokens in circulation and effect the price of the token. Owner can mint new tokens and sell. If contract is renounced this function can't be used.



Balance		No Balance Modifier function found.
Modifier Function		If there is a function for this, the contract owner can have the authority to modify the balance of tokens at other addresses. For example revoke the bought tokens from the holders wallet. Common form of scam: You buy the token, but it's disappearing from your wallet.
		⚠ If contract is renounced this function still can be used as auto self Destruct
Whitelist	<u> </u>	Whitelist Function Found.
Function		If there is a function for this Developer can set zero fee or no max wallet size for adresses (for example team wallets can trade without fee. Can cause farming)
		If there is a whitelist, some addresses may not be able to trade normally (honeypot risk). A Renounced, this function can not be used.
Hidden		No authorised hidden owner found.
Owner Analysis		For contract with a hidden owner, developer can still manipulate the contract even if the ownership has been abandoned. Fake renounce.
Retrieve Ownership	<b>✓</b>	No functions found which can retrieve ownership of the contract.
Function		If this function exists, it is possible for the project owner to regain ownership even after relinquishing it. Also known as fake renounce.
Self		No Self Destruct function found.
Destruct Function		If this function exists and is triggered, the contract will be destroyed, all functions will be unavailable, and all related assets will be erased.
Specific	<u>^</u>	Specific Tax Changing Functions found.
Tax		✓ Renounced, this function can not be used.
Changing Function		If it exists, the contract owner may set a very outrageous tax rate for assigned address to block it from trading. Can assign all wallets at once!
Trading	<u>^</u>	Trading Cooldown Function found.
Cooldown		✓ Renounced, this function can not be used.
Function		If there is a trading cooldown function, the user will not be able to sell the token within a certain time or block after buying. Like a temporary honeypot.
Max	<u>^</u>	Max Transaction and Holding Modify function found.
Transaction		✓ Renounced, this function can not be used.
and Holding Modify Function		If there is a function for this, the maximum trading amount or maximum position can be modified. Can cause honeypot
Transaction	<u> </u>	Transaction Limiter Function Found.
Limiting		Renounced, this function can not be used.
Function		The number of overall token transactions may be limited (honeypot risk)



#### Contract Safety and Weakness



#### **⚠**Unchecked Transfer

A transfer call made in this contract may be unstable and cause tokens to become stuck



#### Uninitialized Local Variables

This contract's local variables are not all initialized, potentially resulting in lost funds or other exploits.



#### Function Initializing State Variables

Some state variables in this contract can be set through dynamic functions calls, which may be unsafe.



#### ⚠Low Level Calls

This contract uses low level calls, which may be unsafe.



#### **△**Costly Loop Operations

Some looping logic in this contract results in very high gas usage.



#### Numeric Notation Best Practices

The numeric notation used in this contract is unconventional, possibly worsening the reading/debugging experience.



#### State Variables Should be Declared Constant

Some state variables in this contract should be declared as constant.



### $oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{A}}}}$ Public Functions Should be Declared External

Some functions in this contract should be declared as external in order to save gas.

No compiler version inconsistencies found

No unchecked call responses found

No vulnerable self-destruct functions found

No assertion vulnerabilities found

No old solidity code found

# SKELETON AUDIT REPORT

#### SLAPPY CAT COIN BEP20

No external delegated calls found

No external call dependency found

No vulnerable authentication calls found

No invalid character typos found

No RTL characters found

No dead code found

No risky data allocation found

No uninitialized state variables found

No uninitialized storage variables found

No vulnerable initialization functions found

No risky data handling found

No number accuracy bug found

No out-of-range number vulnerability found

No map data deletion vulnerabilities found

No tautologies or contradictions found

No faulty true/false values found

No innacurate divisions found

No redundant constructor calls found

No vulnerable return values found

No default function responses found

No missing arithmetic events found

No missing access control events found

No missing zero address checks found

No redundant true/false comparisons found

No invalid solidity versions found

No vulnerable payable functions found

No vulnerable message values found



### Detected High Severity Vulnerabilities



⚠ Unchecked Transfer (1 item)

A transfer call made in this contract may be unstable and cause tokens to become stuck

Function	Severity	Relevant Snippet
SlappyCat.claimStuckTokens (address) (SlappyCat.sol#563-572) ignores return value by ERC20token.transfer(msg.se nder,balance) (SlappyCat.sol#571)	Severity : High	<pre>function claimStuckTokens(address token) external onlyOwner {     require(token !=     address(this), "Owner cannot     claim native tokens");     if (token == address(0x0)) {  payable(msg.sender).sendValue(     address(this).balance);         return;     }     IERC20 ERC20token = IERC20(token);     uint256 balance = ERC20token.balanceOf(address(this));  ERC20token.transfer(msg.sender, balance); }</pre>





### ⚠ Uninitialized Local Variables (1 Item)

This contract's local variables are not all initialized, potentially resulting in lost funds or other exploits.

Function	Severity	Relevant Snippet
Issue Location in Code		address router;
SlappyCat.constructor().ro uter (SlappyCat.sol#402) is a local variable never initialized	Severity : High	



### ⚠ Function Initializing State Variables (2 Items)

Some state variables in this contract can be set through dynamic functions calls, which may be unsafe

Function	Severity	Relevant Snippet
SlappyCattTotal (SlappyCat.sol#357) is set pre-construction with a non-constant function or state variable: - 420_690_000_000_000 * (10 ** _decimals)	Severity : High	<pre>uint256 private _tTotal = 420_690_000_000_000 * (10 ** _decimals);</pre>



Issue Location in Code		<pre>uint256 private _rTotal = (MAX - (MAX % _tTotal));</pre>
<pre>SlappyCatrTotal (SlappyCat.sol#358) is set pre-construction with a non-constant function or state variable:</pre>	Severity : High	



⚠ Low Level Calls (2 Items)

This contract uses low level calls, which may be unsafe.

Function	Severity	Relevant Snippet
Issue Location in Code  Low level call in Address.sendValue(address, uint256) (SlappyCat.sol#91-97):	Severity : High	<pre>function sendValue(address payable recipient, uint256 amount) internal returns(bool){  require(address(this).balance &gt;= amount, "Address: insufficient balance");     // solhint-disable-next- line avoid-low-level-calls,</pre>
(Зтаррусис. зот прэ)		<pre>avoid-call-value     (bool success, ) = recipient.call{ value: amount }("");     return success; }</pre>
Issue Location in Code  Low level call in AddressfunctionCallWithV alue(address,bytes,uint256 ,string) (SlappyCat.sol#116-137):	Severity : High	<pre>function _functionCallWithValue(address target, bytes memory data, uint256 weiValue, string memory errorMessage) private returns (bytes memory) {</pre>
<pre>(success, returndata) = target.call{value: weiValue}(data) (SlappyCat.sol#120)</pre>		<pre>require(isContract(target), "Address: call to non- contract");     // solhint-disable-next- line avoid-low-level-calls</pre>



```
(bool success, bytes
memory returndata) =
target.call{ value: weiValue
}(data);
    if (success) {
        return returndata;
    } else {
        // Look for revert
reason and bubble it up if
present
        if (returndata.length
> 0) {
            // The easiest way
to bubble the revert reason is
using memory via assembly
            // solhint-
disable-next-line no-inline-
assembly
            assembly {
                let
returndata_size :=
mload(returndata)
                revert(add(32,
returndata), returndata_size)
        } else {
revert(errorMessage);
        }
  }
```



⚠ Costly Loop Operation (1 Item)

Following looping logic in this contract results in very high gas usage.

Function	Severity	Relevant Snippet
<pre>Issue Location in Code  SlappyCat.includeInReward( address) (SlappyCat.sol#548-559) has costly operations inside a loop:</pre>	Severity : High	<pre>function includeInReward(address account) external onlyOwner() {     require(_isExcluded[account],     "Account is already included");     for (uint256 i = 0; i &lt; _excluded.length;     i++) {         if (_excluded[i] == account) {             _excluded[i] =         _excluded[_excluded.length - 1];             _tOwned[account] = 0;             _isExcluded[account] = false;             _excluded.pop();         break;     }     } }</pre>



⚠ Numeric Notation Best Practices (1 Item)

The numeric notation used in this contract is unconventional, possibly worsening the reading/debugging experience.

Function	Severity	Relevant Snippet
Contract SlappyCat uses literals with too many digits:	Severity : High	address private constant DEAD = 0x0000000000000000000000000000000000



⚠ State Variables Should be Declared Constant (3 Items)

Following state variables in this contract should be declared as constant.

Function	Severity	Relevant Snippet
SlappyCatdecimals (SlappyCat.sol#354) should be constant	Severity : High	uint8 private _decimals = 9;
SlappyCatname (SlappyCat.sol#352) should be constant	Severity : High	<pre>string private _name = "Slappy Cat Coin";</pre>
SlappyCatsymbol (SlappyCat.sol#353) should be constant	Severity : High	<pre>string private _symbol = "SLAPPYCAT";</pre>



⚠ Public Functions Should be Declared External (15 Items)

Following functions in this contract should be declared as external in order to save gas.

Function	Severity	Relevant Snippet
<pre>name() should be declared external:</pre>	Severity : High	<pre>function name() public view returns (string memory) {    return _name; }</pre>
<pre>symbol() should be declared external:     - SlappyCat.symbol() (SlappyCat.sol#458-460)</pre>	Severity : High	<pre>function symbol() public view returns (string memory) {    return _symbol; }</pre>
<pre>decimals() should be declared external:     - SlappyCat.decimals() (SlappyCat.sol#462-464)</pre>	Severity : High	<pre>function decimals() public view returns (uint8) {    return _decimals; }</pre>



<pre>Issue Location in Code  transfer(address,uint256) should be declared external:</pre>	Severity : High	<pre>function transfer(address recipient, uint256 amount) public override returns (bool) {     _transfer(_msgSender(), recipient, amount);     return true; }</pre>
allowance(address,address) should be declared external: - SlappyCat.allowance(addres s,address) (SlappyCat.sol#480-482)	Severity : High	<pre>function allowance(address owner, address spender) public view override returns (uint256) {    return _allowances[owner][spender]; }</pre>
Issue Location in Code  approve(address,uint256) should be declared external: - SlappyCat.approve(address, uint256) (SlappyCat.sol#484-487)	Severity : High	<pre>function approve(address spender, uint256 amount) public override returns (bool) {     _approve(_msgSender(), spender, amount);     return true; }</pre>
<pre>ssue Location in Code  transferFrom(address,addre ss,uint256) should be declared external:</pre>	Severity : High	<pre>function transferFrom(address sender, address recipient, uint256 amount) public override returns (bool) {     _transfer(sender, recipient, amount);     _approve(sender, _msgSender(), _allowances[sender][_msgSender ()] - amount);     return true; }</pre>



	T	
<pre>increaseAllowance(address, uint256) should be declared external:     - SlappyCat.increaseAllowanc e(address,uint256) (SlappyCat.sol#495-498)</pre>	Severity : High	<pre>function increaseAllowance(address spender, uint256 addedValue) public virtual returns (bool) {     _approve(_msgSender(),     spender,     _allowances[_msgSender()][spender] + addedValue);     return true; }</pre>
Issue Location in Code  decreaseAllowance(address, uint256) should be declared external:  - SlappyCat.decreaseAllowanc e(address,uint256) (SlappyCat.sol#500-503)	Severity : High	<pre>function decreaseAllowance(address spender, uint256 subtractedValue) public virtual returns (bool) {     _approve(_msgSender(),     spender,     _allowances[_msgSender()][spender] - subtractedValue);     return true; }</pre>
<pre>isExcludedFromReward(addre ss) should be declared external:</pre>	Severity : High	<pre>function isExcludedFromReward(address account) public view returns (bool) {     return _isExcluded[account]; }</pre>
<pre>totalReflectionDistributed () should be declared external:</pre>	Severity : High	<pre>function totalReflectionDistributed() public view returns (uint256) {     return _tFeeTotal; }</pre>



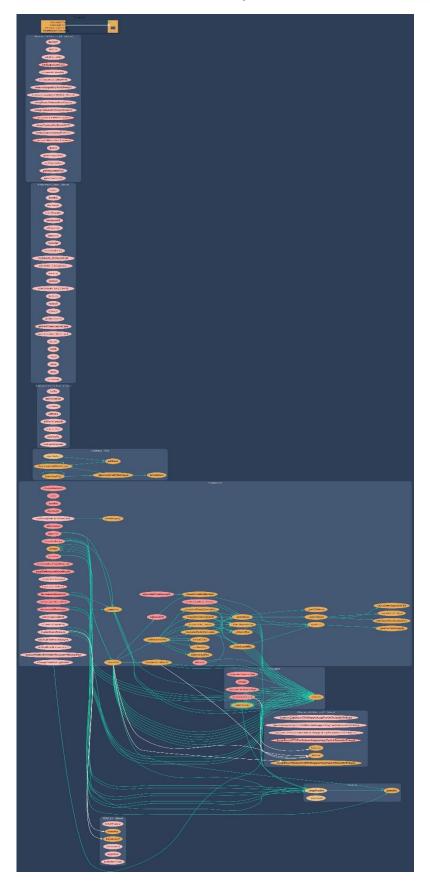
Issue Location in Code  deliver(uint256) should be declared external:	Severity : High	<pre>function deliver(uint256 tAmount) public {    address sender =    _msgSender();</pre>
SlappyCat.deliver(uint256) (SlappyCat.sol#513-520)		<pre>require(!_isExcluded[sender], "Excluded addresses cannot call this function");     (uint256 rAmount,,,,,) =     _getValues(tAmount);     _rOwned[sender] =     _rOwned[sender] - rAmount;     _rTotal = _rTotal - rAmount;     _tFeeTotal = _tFeeTotal + tAmount; }</pre>
Issue Location in Code	Severity	function
<pre>reflectionFromToken(uint25 6,bool) should be declared external:</pre>	: High	<pre>reflectionFromToken(uint256 tAmount, bool deductTransferFee) public view returns(uint256) {     require(tAmount &lt;=     _tTotal, "Amount must be less than supply");     if (!deductTransferFee) {         (uint256 rAmount,,,,,) =     _getValues(tAmount);         return rAmount;     } else {         (,uint256</pre>
		rTransferAmount,,,,) = _getValues(tAmount);
		return rTransferAmount;
		}
<pre>excludeFromReward(address) should be declared external:</pre>	Severity : High	<pre>function excludeFromReward(address account) public onlyOwner() {</pre>
SlappyCat.excludeFromReward(address) (SlappyCat.sol#539-546)		<pre>require(!_isExcluded[account], "Account is already excluded");     if(_rOwned[account] &gt; 0) {         _tOwned[account] = tokenFromReflection(_rOwned[account]);     }</pre>



		_isExcluded[account] = true; _excluded.push(account); }
<pre>isExcludedFromFee(address) should be declared external:</pre>	Severity : High	<pre>function isExcludedFromFee(address account) public view returns(bool) {     return _isExcludedFromFees[account]; }</pre>

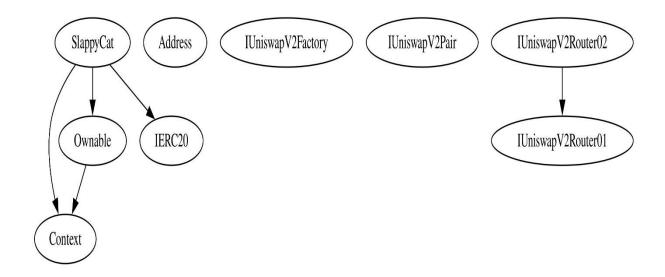


### Contract Flow Graph





### Inheritance Graph





### Contract Descriptions

Contract	Type			
	Function Name	Visibility	Mutability	Modifiers
Context	Implementation			
	_msgSender	Internal 🦰		
	_msgData	Internal 🖺		
Ownable	Implementation	Context		
	·	Public		NO
	owner	Public		NO.
	renounceOwnersh ip	Public		onlyOwner
	transferOwnersh ip	Public	•	onlyOwner
IERC20	Interface			
	totalSupply	External		NO
	balanceOf	External		NO.
	transfer	External		NO
	allowance	External		NO
	approve	External		NO
	transferFrom	External		NO
Address	Library			
	isContract	Internal 🦺		
	sendValue	Internal 🦺	<b>(</b>	
	functionCall	Internal 🦺	<b>(</b>	
	functionCall	Internal 🦲		
	functionCallWit hValue	Internal 🦲		
	functionCallWit hValue	Internal 🦲		
	_functionCallWi thValue	Private 🖺		



IUniswapV2Facto ry	Interface			
	feeTo	External [		NO
	feeToSetter	External [		NO.
	getPair	External [		NO.
	allPairs	External [		NO.
	allPairsLength	External [		NO
	createPair	External [	<b>(</b>	NO.
	setFeeTo	External [	<b>(</b>	NO.
	setFeeToSetter	External	•	NO.
IUniswapV2Pair	Interface			
1013.114712. 41.	name	External		NO.
	symbol	External		NO.
	decimals	External		NO.
	totalSupply	External		NO.
	balanceOf	External		NO.
	allowance	External		NO.
	approve	External		NO.
	transfer	External		NO.
	transferFrom	External		NO.
	DOMAIN_SEPARATO	External		NO.
	PERMIT_TYPEHASH	External [		NO.
	nonces	External 🌡		NO
	permit	External 🌡		NO
	MINIMUM_LIQUIDI TY	External [		NO .
	factory	External [		NO
	token0	External [		NO.
	token1	External [		NO.
	getReserves	External		NO
	price0Cumulativ eLast	External [		NO.
	price1Cumulativ eLast	External		NO.
	kLast	External [		NO.
	burn	External [		NO.
	swap	External [		NO.
	skim	External [		NO



	sync	External		NO
	initialize	External	<b>(</b>	NO.
IUniswapV2Route r01	Interface			
	factory	External		NO.
	WETH	External		NO
	addLiquidity	External		NO
	addLiquidityETH	External [	<b>6</b> D	NO
	removeLiquidity	External [		NO
	removeLiquidity ETH	External		NO.
	removeLiquidity WithPermit	External .		NO.
	removeLiquidity ETHWithPermit	External .		NO.
	swapExactTokens ForTokens	External .		NO.
	swapTokensForEx actTokens	External		NO.
	swapExactETHFor Tokens	External	<u>ap</u>	NO.
	swapTokensForEx actETH	External		NO.
	swapExactTokens ForETH	External		NO.
	swapETHForExact Tokens	External	<u>ap</u>	NO.
	quote	External		NO
	getAmountOut	External		NO
	getAmountIn	External		NO
	getAmountsOut	External		NO
	getAmountsIn	External [		NO
IUniswapV2Route r02	Interface	IUniswapV2Route r01		
	removeLiquidity ETHSupportingFe eOnTransferToke ns	External		NO.



	İ			
	removeLiquidity ETHWithPermitSu pportingFeeOnTr ansferTokens	External 【		NO.
	swapExactTokens ForTokensSuppor tingFeeOnTransf erTokens	External 【		NO.
	swapExactETHFor TokensSupportin gFeeOnTransferT okens	External .	æ	NO .
	swapExactTokens ForETHSupportin gFeeOnTransferT okens	External 【		NO.
SlannyCat	Implementation	Context,		
SlappyCat	Implementation	IERC20, Ownable		
		Public		NO .
	name	Public		NO
	symbol	Public		NO
	decimals	Public		NO.
	totalSupply	Public		NO
	balanceOf	Public		NO
	transfer	Public		NO
	allowance	Public		NO
	approve	Public		NO
	transferFrom	Public		NO
	increaseAllowan ce	Public		NO
	decreaseAllowan ce	Public 🌡		NO.
	isExcludedFromR eward	Public		NO.
	totalReflection Distributed	Public		NO.
	deliver	Public		NO.
	reflectionFromT oken	Public		NO.
	tokenFromReflec tion	Public		NO.



excludeFromRewa rd	Public .		only0wner
includeInReward	External 🌡		onlyOwner
	External [	<b>CD</b>	NO
claimStuckToken s	External [		onlyOwner
_reflectFee	Private 🖺		
_getValues	Private 🖺		
_getTValues	Private 🖺		
_getRValues	Private 🖺		
_getRate	Private 🖺		
_getCurrentSupp ly	Private 🖺		
_takeLiquidity	Private 🖺		
_takeMarketing	Private 🖺		
calculateTaxFee	Private 🖺		
calculateLiquid ityFee	Private 🖺		
calculateMarket ingFee	Private 🖺		
removeAllFee	Private 🖺		
setBuyFee	Private 🖺		
setSellFee	Private 🖺		
isExcludedFromF ee	Public		NO .
_approve	Private 🖺		
_transfer	Private 🖺		
buybackAndBurn	Private 🖺		
setSwapTokensAt Amount	External [		onlyOwner
setSwapEnabled	External [		only0wner
_tokenTransfer	Private 🖺		
_transferStanda rd	Private 🖺		
_transferToExcl uded	Private 鹛		
_transferFromEx cluded	Private 🖺		
_transferBothEx cluded	Private 🖺		
excludeFromFees	External [		only0wner
changeMarketing Wallet	External		only0wner



setBuyFeePercen tages	External	onlyOwner
setSellFeePerce ntages	External	onlyOwner
enableWalletToW alletTransferWi thoutFee	External 【	onlyOwner

**Function** can modify state

**1** 

**Function** is payable

Source:

File Name SHA-1 Hash

c:\Solidity\slappy.sol e3a0254b6a3fc5cffa8ab771444a891230040601