



TechRate
AUDIT COMPANY

Smart Contract Security Audit

TechRate

November, 2021

Audit Details



Audited project

Stream Smart Business



Deployer address

0x9c425a054d6ea222b950ee2f2f16e32101bbd079



Client contacts:

Stream Smart Business team



Blockchain

Binance Smart Chain



Project website:

www.streamsmartbusiness.com

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 Stream Smart Business to perform an audit of smart contracts:

<https://bscscan.com/address/0xc03b1a1c0ffa1c23d3680f765503315c9ef2448e#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 24.11.2021

Contract name	Stream Smart Business
Contract address	0xC03B1a1C0fFA1C23d3680F765503315c9ef2448E
Total supply	20,000,000
Token ticker	SSB
Decimals	9
Token holders	560
Transactions count	3,775
Top 100 holders dominance	94.95%
Launched at	12202662
Autoliquidity fee receiver	0xea960961c33e95a6e6985edce8bdde05ebc4425c
Marketing fee receiver	0xea960961c33e95a6e6985edce8bdde05ebc4425c
Pair	0x80497ce1cfaf33cfe7992da0c6e8d934fd76bdb5
Contract deployer address	0x9c425a054d6ea222b950ee2f2f16e32101bbd079
Contract's current owner address	0x9c425a054d6ea222b950ee2f2f16e32101bbd079

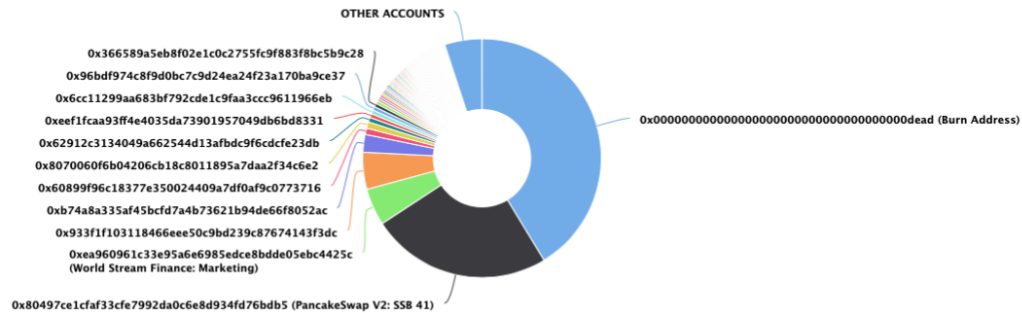
Stream Smart Business Token Distribution

💡 The top 100 holders collectively own 94.95% (18,990,586.62 Tokens) of Stream Smart Business

💡 Token Total Supply: 20,000,000.00 Token | Total Token Holders: 560

Stream Smart Business Top 100 Token Holders

Source: BscScan.com



(A total of 18,990,586.62 tokens held by the top 100 accounts from the total supply of 20,000,000.00 token)

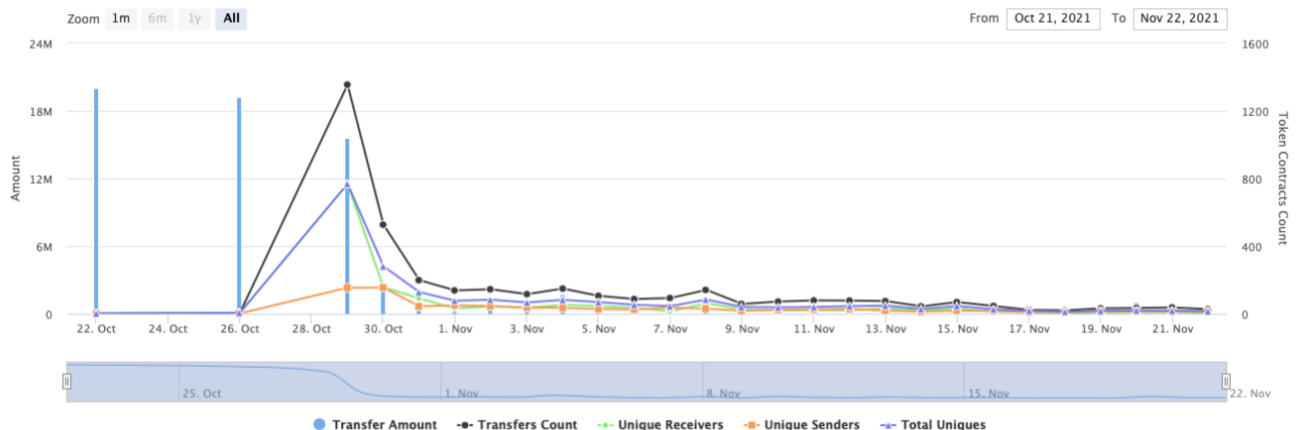
Stream Smart Business Contract Interaction Details

Time Series: Token Contract Overview



Fri 22, Oct 2021 - Mon 22, Nov 2021

Token Contract 0xc03b1a1c0ffa1c23d3680f765503315c9ef2448e (Stream Smart Business)
Source: BscScan.com

Source: BscScan.com



Stream Smart Business Top 10 Token Holders

Rank	Address	Quantity (Token)	Percentage
1	Burn Address	8,259,987.923389817	41.2999%
2	 PancakeSwap V2: SSB 41	4,899,640.472129618	24.4982%
3	World Stream Finance: Marketing	1,000,000	5.0000%
4	0x933f1f103118466eee50c9bd239c87674143f3dc	1,000,000	5.0000%
5	0xb74a8a335af45bcfd7a4b73621b94de66f8052ac	481,164.77	2.4058%
6	0x60899f96c18377e350024409a7df0af9c0773716	173,384.637138901	0.8669%
7	0x8070060f6b04206cb18c8011895a7daa2f34c6e2	171,485	0.8574%
8	0x62912c3134049a662544d13afbdc9f6cdcf23db	125,000	0.6250%
9	 0xeeef1caa93ff4e4035da73901957049db6bd8331	107,037.116611855	0.5352%
10	0x6cc11299aa683b7792cde1c9faa3ccc9611966eb	105,500	0.5275%



Contract functions details

+ [Lib] SafeMath

- [Int] add
- [Int] sub
- [Int] sub
- [Int] mul
- [Int] div
- [Int] div

+ [Int] IBEP20

- [Ext] totalSupply
- [Ext] decimals
- [Ext] symbol
- [Ext] name
- [Ext] getOwner
- [Ext] balanceOf
- [Ext] transfer #
- [Ext] allowance
- [Ext] approve #
- [Ext] transferFrom #

+ Auth

- [Pub] <Constructor> #
- [Pub] authorize #
 - modifiers: onlyOwner
- [Pub] unauthorize #
 - modifiers: onlyOwner
- [Pub] isOwner
- [Pub] isAuthorized
- [Pub] transferOwnership #
 - modifiers: onlyOwner

+ [Int] IDEXFactory

- [Ext] createPair #

+ [Int] IDEXRouter

- [Ext] factory
- [Ext] WETH
- [Ext] addLiquidity #
- [Ext] addLiquidityETH (\$)
- [Ext] swapExactTokensForTokensSupportingFeeOnTransferTokens #
- [Ext] swapExactETHForTokensSupportingFeeOnTransferTokens (\$)
- [Ext] swapExactTokensForETHSupportingFeeOnTransferTokens #

+ [Int] IDividendDistributor

- [Ext] setDistributionCriteria #
- [Ext] setShare #
- [Ext] deposit (\$)
- [Ext] process #

+ DividendDistributor (IDividendDistributor)

- [Pub] <Constructor> #

- [Ext] setDistributionCriteria #
 - modifiers: onlyToken
 - [Ext] setShare #
 - modifiers: onlyToken
 - [Ext] deposit (\$)
 - modifiers: onlyToken
 - [Ext] process #
 - modifiers: onlyToken
 - [Int] shouldDistribute
 - [Int] distributeDividend #
 - [Ext] claimDividend #
 - modifiers: onlyToken
 - [Pub] getUnpaidEarnings
 - [Int] getCumulativeDividends
 - [Int] addShareholder #
 - [Int] removeShareholder #
- + StreamSmartBusiness (IBEP20, Auth)
- [Pub] <Constructor> #
 - modifiers: Auth
 - [Ext] <Fallback> (\$)
 - [Ext] totalSupply
 - [Ext] decimals
 - [Ext] symbol
 - [Ext] name
 - [Ext] getOwner
 - [Pub] balanceOf
 - [Ext] allowance
 - [Pub] approve #
 - [Ext] approveMax #
 - [Ext] transfer #
 - [Ext] transferFrom #
 - [Int] _transferFrom #
 - [Int] _basicTransfer #
 - [Int] checkTxLimit
 - [Int] shouldTakeFee
 - [Pub] getTotalFee
 - [Pub] getMultipliedFee
 - [Int] takeFee #
 - [Int] shouldSwapBack
 - [Int] swapBack #
 - modifiers: swapping
 - [Int] shouldAutoBuyback
 - [Ext] triggerManualBuyback #
 - modifiers: authorized
 - [Ext] clearBuybackMultiplier #
 - modifiers: authorized
 - [Int] triggerAutoBuyback #
 - [Int] buyTokens #
 - modifiers: swapping
 - [Ext] setAutoBuybackSettings #
 - modifiers: authorized
 - [Ext] setBuybackMultiplierSettings #
 - modifiers: authorized
 - [Int] launched

- [Int] launch #
- [Ext] setTxLimit #
 - modifiers: authorized
- [Ext] setLsDividendExempt #
 - modifiers: authorized
- [Ext] setLsFeeExempt #
 - modifiers: authorized
- [Ext] setLsTxLimitExempt #
 - modifiers: authorized
- [Ext] setFees #
 - modifiers: authorized
- [Ext] setFeeReceivers #
 - modifiers: authorized
- [Ext] setSwapBackSettings #
 - modifiers: authorized
- [Ext] setTargetLiquidity #
 - modifiers: authorized
- [Ext] manualSend #
 - modifiers: authorized
- [Ext] setDistributionCriteria #
 - modifiers: authorized
- [Ext] claimDividend #
- [Pub] getUnpaidEarnings
- [Ext] setDistributorSettings #
 - modifiers: authorized
- [Pub] getCirculatingSupply
- [Pub] getLiquidityBacking
- [Pub] isOverLiquified
- [Ext] rescueBNB #
 - modifiers: onlyOwner

(\$) = 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.	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 call `triggerManualBuyback` that's initiate buyback.
- Owner can clean buyback multiplier.
- Owner can change auto buyback settings.
- Owner can change buyback multiplier settings.
- Owner can change the maximum transaction amount.
- Owner can include in and exclude from dividends.
- Owner can include in and exclude from fee and transaction amount.
- Owner can change fees.
- Owner can change fee receivers.
- Owner can change swap threshold and disable/enable swap.
- Owner can change target liquidity values.
- Owner can change distribution criteria.
- Owner can change distribution GAS.
- Owner can withdraw BNBs to owner and to the marketing receiver address.

Conclusion

Smart contracts contain owner privileges! Liquidity pair contract's security is not checked due to out of scope.

Liquidity locking details are provided by the team:

<https://dxsale.app/app/v3/dxlplocksearch?id=0&add=0xC03B1a1C0fFA1C23d3680F765503315c9ef2448E&type=lpdefi&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.



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