



NOVOS

KYC & AUDIT.

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CERTIFICATE OF COMPLIANCE

Smart Contract Audit by NOVOS



Stabletest

Audit Passed

02/09/2023

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Audit Summary

This report has been prepared for Stabletest on the BSC network. Novos provides both client-centered and user-centered examination of the smart contracts and their current status when applicable. This report represents the security assessment made to find issues and vulnerabilities on the source code along with the current liquidity and token holder statistics of the protocol.

A comprehensive examination has been performed, utilizing Cross Referencing, Static Analysis, In-House Security Tools, and line-by-line Manual Review.

The auditing process pays special attention to the following considerations:

- Ensuring contract logic meets the specifications and intentions of the client without exposing the user's funds to risk.
- Testing the smart contracts against both common and uncommon attack vectors.
- Inspecting liquidity and holders statistics to inform the current status to both users and client when applicable.
- Assessing the codebase to ensure compliance with current best practices and industry standards.
- Verifying contract functions that allow trusted and/or untrusted actors to mint, lock, pause, and transfer assets.
- Thorough line-by-line manual review of the entire codebase by industry experts.



Project Overview

Parameter	Result
Address	0xEAf770a86002472230C66035e83fC10af92c9F24
Name	Stabletest
Token Tracker	-
Decimals	-
Supply	-
Platform	BSC
Compiler	v0.8.18+commit.87f61d96
Optimization	No with 200 runs
Other Settings:	default evmVersion
Language	Solidity
Codebase	https://bscscan.com/address/0xeaf770a86002472230c66035e83fc10af92c9f24#code
Url	https://stablebeans.com/

Main Contract Assessed

Name	Contract	Live
Stabletest	0xEAf770a86002472230C66035e83fC10af92c9F24	Yes

Smart Contract Vulnerability Checks

Vulnerability	Automatic Scan	Manual Scan	Result
❖ Unencrypted Private Data On-Chain	✓ Complete	✓ Complete	✓ Low / No Risk
❖ Code With No Effects	✓ Complete	✓ Complete	✓ Low / No Risk
❖ Message call with hardcoded gas amount	✓ Complete	✓ Complete	✓ Low / No Risk
❖ Hash Collisions With Multiple Variable Length Arguments	✓ Complete	✓ Complete	✓ Low / No Risk
❖ Unexpected Ether balance	✓ Complete	✓ Complete	✓ Low / No Risk
❖ Presence of unused variables	✓ Complete	✓ Complete	✓ Low / No Risk
❖ Right-To-Left-Override control character (U+202E)	✓ Complete	✓ Complete	✓ Low / No Risk
❖ Typographical Error	✓ Complete	✓ Complete	✓ Low / No Risk
❖ DoS With Block Gas Limit	✓ Complete	✓ Complete	✓ Low / No Risk
❖ Arbitrary Jump with Function Type Variable	✓ Complete	✓ Complete	✓ Low / No Risk
❖ Insufficient Gas Griefing	✓ Complete	✓ Complete	✓ Low / No Risk
❖ Incorrect Inheritance Order	✓ Complete	✓ Complete	✓ Low / No Risk
❖ Write to Arbitrary Storage Location	✓ Complete	✓ Complete	✓ Low / No Risk
❖ Requirement Violation	✓ Complete	✓ Complete	✓ Low / No Risk
❖ Missing Protection against Signature Replay Attacks	✓ Complete	✓ Complete	✓ Low / No Risk
❖ Weak Sources of Randomness from Chain Attributes	✓ Complete	✓ Complete	✓ Low / No Risk





Smart Contract Vulnerability Checks

Vulnerability	Automatic Scan	Manual Scan	Result
❖ Authorization through tx.origin	✓ Complete	✓ Complete	✓ Low / No Risk
❖ Delegatecall to Untrusted Callee	✓ Complete	✓ Complete	✓ Low / No Risk
❖ Use of Deprecated Solidity Functions	✓ Complete	✓ Complete	✓ Low / No Risk
❖ Assert Violation	✓ Complete	✓ Complete	✓ Low / No Risk
❖ Reentrancy	✓ Complete	✓ Complete	✓ Low / No Risk
❖ Unprotected SELFDESTRUCT Instruction	✓ Complete	✓ Complete	✓ Low / No Risk
❖ Unprotected Ether Withdrawal	✓ Complete	✓ Complete	✓ Low / No Risk
❖ Unchecked Call Return Value	✓ Complete	✓ Complete	✓ Low / No Risk
❖ Outdated Compiler Version	✓ Complete	✓ Complete	✓ Low / No Risk
❖ Integer Overflow and Underflow	✓ Complete	✓ Complete	✓ Low / No Risk
❖ Function Default Visibility	✓ Complete	✓ Complete	✓ Low / No Risk

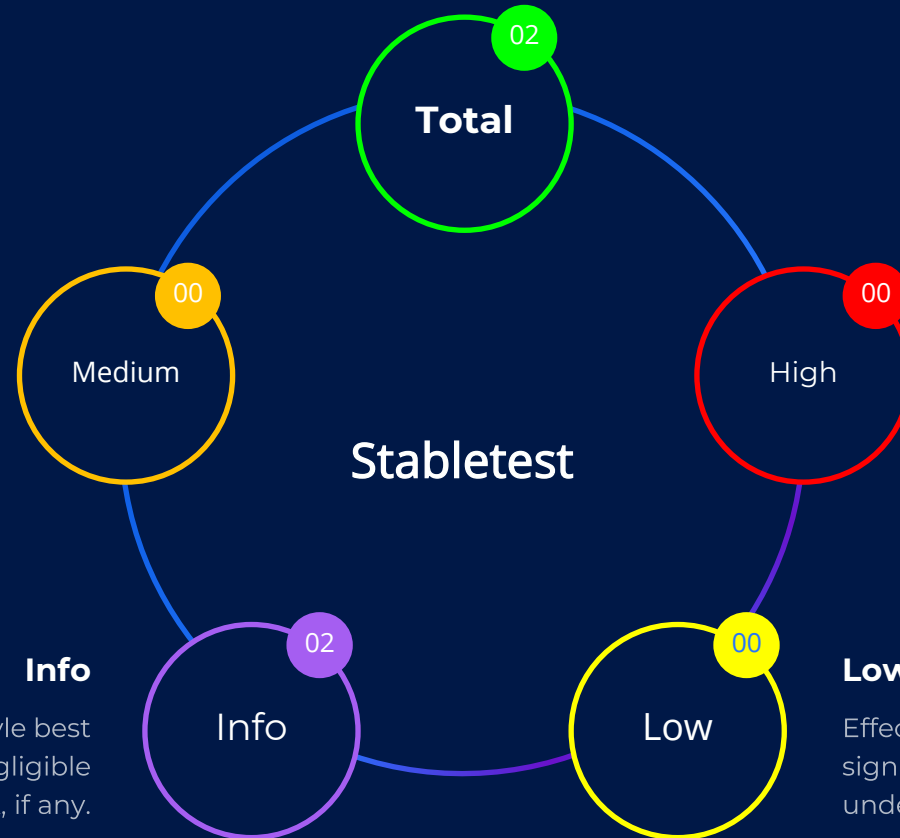


Technical Findings Summary

Classification of Issues

Total

What you should pay attention to



Medium

Bugs or issues with that may be subject to exploit, though their impact is somewhat limited. Issues under this classification are recommended to be fixed as soon as possible.

High

Exploits, vulnerabilities or errors that will certainly or probabilistically lead towards loss of funds, control, or impairment of the contract and its functions. Issues under this classification are recommended to be fixed with utmost urgency

Info

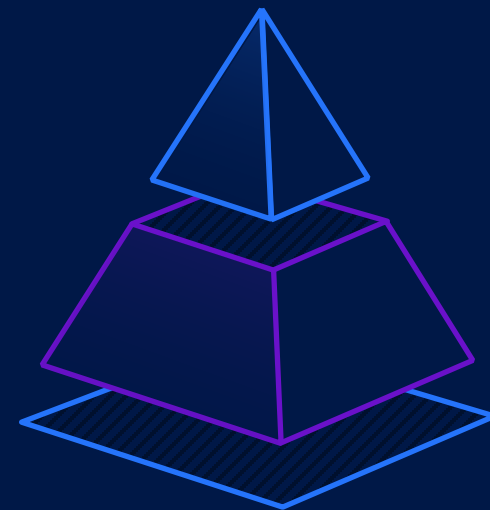
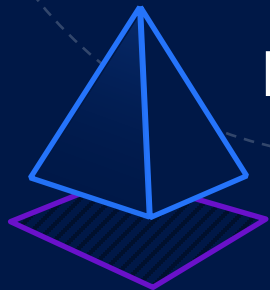
Consistency, syntax or style best practices. Generally pose a negligible level of risk, if any.

Low

Effects are minimal in isolation and do not pose a significant danger to the project or its users. Issues under this classification are recommended to be fixed nonetheless.

Findings

Public function that could be declared external



ID	Severity	Contract	Function
01	Informational	Stabletest	Functions: size, getKeyAtIndex, getIndexOfKey

Description

Gas Optimization. Public function that could be declared external

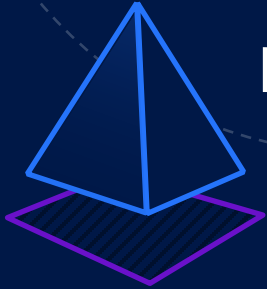
Recommendation

Public functions that are never called by the contract should be declared external to save gas.



Findings

Missing events arithmetic



ID	Severity	Contract	Function
02	Informational	Stabletest	Missing events for setWalletBalance, setMaxBuyTransaction, setMaxSellTransaction, setSwapTokensAtAmount, setSellTransactionMultiplier

Description

Functions that change critical arithmetic parameters should emit an event.

Recommendation

Emit corresponding events for critical parameter changes.

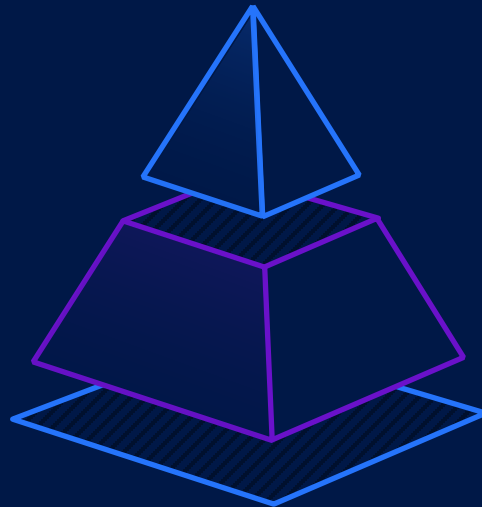


Privileged Functions (onlyOwner & Others)

Function Name	Parameters	Visibility
✓ renounceOwnership	<ul style="list-style-type: none">▪ none	<ul style="list-style-type: none">▪ external
✓ transferOwnership	<ul style="list-style-type: none">▪ address newOwner	<ul style="list-style-type: none">▪ public
✓ prepareForPartnerOrExchangeListing	<ul style="list-style-type: none">▪ address_partnerOrExchangeAddress	<ul style="list-style-type: none">▪ external
✓ setWalletBalance	<ul style="list-style-type: none">▪ uint256_maxWalletBalance	<ul style="list-style-type: none">▪ external
✓ setMaxBuyTransaction	<ul style="list-style-type: none">▪ uint256_maxTxn	<ul style="list-style-type: none">▪ external
✓ setMaxSellTransaction	<ul style="list-style-type: none">▪ uint256_maxTxn	<ul style="list-style-type: none">▪ external
✓ updateBusdDividendToken	<ul style="list-style-type: none">▪ address_newContract	<ul style="list-style-type: none">▪ external
✓ updateMarketingWallet	<ul style="list-style-type: none">▪ address_newWallet	<ul style="list-style-type: none">▪ external
✓ setSwapTokensAtAmount	<ul style="list-style-type: none">▪ uint256_swapAmount	<ul style="list-style-type: none">▪ external
✓ setSellTransactionMultiplier	<ul style="list-style-type: none">▪ uint256_multiplier	<ul style="list-style-type: none">▪ external
✓ setTradingIsEnabled	<ul style="list-style-type: none">▪ none	<ul style="list-style-type: none">▪ external
✓ setBusdDividendEnabled	<ul style="list-style-type: none">▪ bool_enabled	<ul style="list-style-type: none">▪ external
✓ setMarketingEnabled	<ul style="list-style-type: none">▪ bool_enabled	<ul style="list-style-type: none">▪ external
✓ setSwapAndLiquifyEnabled	<ul style="list-style-type: none">▪ bool_enabled	<ul style="list-style-type: none">▪ external
✓ updatebusdDividendTracker	<ul style="list-style-type: none">▪ address newAddress	<ul style="list-style-type: none">▪ external
✓ updateUniswapV2Router	<ul style="list-style-type: none">▪ address newAddress	<ul style="list-style-type: none">▪ external

Privileged Functions (onlyOwner & Others)

Function Name	Parameters	Visibility
✓ <code>excludeFromFees</code>	▪ <code>address account, bool excluded</code>	▪ public
✓ <code>excludeFromDividend</code>	▪ <code>address account</code>	▪ public
✓ <code>setAutomatedMarketMakerPair</code>	▪ <code>address pair, bool value</code>	▪ external
✓ <code>updateGasForProcessing</code>	▪ <code>uint256 newValue</code>	▪ external
✓ <code>updateMinimumBalanceForDividends</code>	▪ <code>uint256 newMinimumBalance</code>	▪ external
✓ <code>updateClaimWait</code>	▪ <code>uint256 claimWait</code>	▪ external
✓ <code>processDividendTracker</code>	▪ <code>uint256 gas</code>	▪ external





Statistics

Liquidity Info



Parameter	Result
Pair Address	-
Stabletest Reserves	- Stabletest
Reserves, WBNB	- WBNB
BALANCE	\$ 51,166.636



Statistics

Token (Stabletest) Holders Info

Parameter	Result
Stabletest Percentage Burnt	- %
Stabletest Amount Burnt	- Stabletest
Top 10 Percentage Own	- %



Disclaimer

Novos has conducted an independent audit to verify the integrity of and highlight any vulnerabilities or errors, intentional or unintentional, that may be present in the codes that were provided for the scope of this audit. This audit report does not constitute agreement, acceptance or advocacy for the Project that was audited, and users relying on this audit report should not consider this as having any merit for financial advice in any shape, form or nature. The contracts audited do not account for any economic developments that may be pursued by the Project in question, and that the veracity of the findings thus presented in this report relate solely to the proficiency, competence, aptitude and discretion of our independent auditors, who make no guarantees nor assurance that the contracts are completely free of exploits, bugs, vulnerabilities or deprecation of technologies.

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