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KYC & AUDIT.

Novos is an agency specializing in blockchain technology solutions, Audits, KYC / Doxx.

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CERTIFICATE OF COMPLIANCE

Smart Contract Audit by NOVOS

SPACELON

Audit Passed

10/20/2022

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Table of Contents

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Audit Summary

This report has been prepared for SPACELON Token on the ETH 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.

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Project Overview

Parameter	Result
Address	0xB5d2ce920d0D1e801D7967Ca4c2864904B64302A
Name	SPACELON
Token Tracker	SPACELON
Decimals	9
Supply	420,420,420
Platform	ETH
Compiler	v0.8.7+commit.e28d00a7
Optimization	No with 200 runs
Other Settings:	default evmVersion
Language	Solidity
Codebase	https://etherscan.io/token/0xb5d2ce920d0d1e801d7967ca4c2864904b64302a#code
Url	http://spacelon.io/

Main Contract Assessed

Name	Contract	Live
SPACELON	0xB5d2ce920d0D1e801D7967Ca4c2864904B64302A	Yes

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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**



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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**



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Contract Ownership

The contract ownership of SPACELONi Token is not currently renounced. The ownership of the contract grants special powers to the protocol creators, making them the sole addresses that can call sensible ownable functions that may alter the state of the protocol.
.

01

The current owner is the address 0x1aCd50dB76bBE0400dB475d6E3A5ac81A7a52e9F which can be viewed from: HERE

02

The owner wallet has the power to call the functions displayed on the priviliged functions chart below, if the owner wallet is compromised this privileges could be exploited.

03

We recommend the team to renounce ownership at the right timing if possible, or gradually migrate to a timelock with governing functionalities in respect of transparency and safety considerations.

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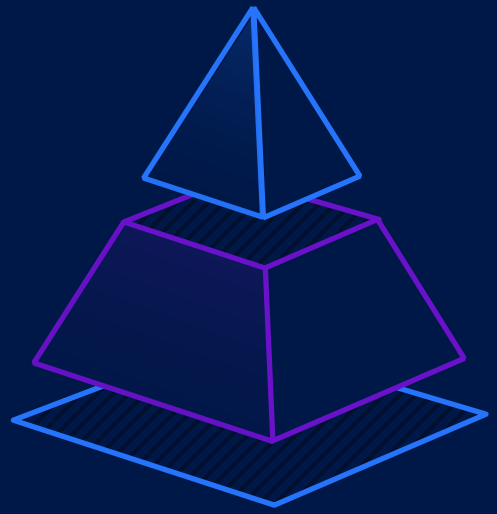
Ownership Privileges



The owner can set the swap threshold and maximum wallet limit to any arbitrary amount because there are no checks or limits in place.
Moreover, by setting the maximum wallet amount as zero, the owner can restrict users from receiving any funds.

There is only one wallet which is exempted by both the fees and transaction limit - 0x12ed7DE8FF1dC1939148F294D87C7A4Ff4e18d54
No other wallets can be exempted from fees or maximum transaction so, if owner wants then they can restrict the transfer of any wallet by setting the wallet limit to zero.

The fees is constant in the contract but can be turned on/off by the owner and if turned on then the fee percentage is 50% which is really high and not recommended.

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Findings

Missing Arithmetic Events

Description

Affected Lines	Severity	Contract	#code
208	Low	SPACELON	function setWalletLimit(uint256 amountPercent) external onlyOwner { _maxWalletAmount = (_totalSupply * amountPercent) / 1000;
212	Low	SPACELON	function setSwapThreshold(uint256 _swapThreshold) external onlyOwner { swapThreshold = _totalSupply / 100000 * _swapThreshold;
216	Low	SPACELON	function turnMF(bool _on) public onlyOwner { if (_on) { marketingFee = 50; totalFee = liquidityFee + marketingFee; } else { marketingFee = 0; totalFee = liquidityFee + marketingFee;

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Findings

Missing zero check in transfer functions

Description

There is a missing zero address validation which may cause users to accidentally send tokens to the zero address and those tokens would be lost forever

Affected Lines	Severity	Contract	#code
90	Low	SPACELON	function transfer(address recipient, uint256 amount) external override returns (bool) { return _transferFrom(msg.sender, recipient, amount);
94	Low	SPACELON	function transferFrom(address sender, address recipient, uint256 amount) external override returns (bool) { if (_allowances[sender][msg.sender] != type(uint256).max) { _allowances[sender][msg.sender] = _allowances[sender][msg.sender].sub(amount, "Insufficient Allowance");
102	Low	SPACELON	function _transferFrom(address sender, address recipient, uint256 amount) internal returns (bool) { if (inSwap) { return _basicTransfer(sender, recipient, amount);
122	Low	SPACELON	function _basicTransfer(address sender, address recipient, uint256 amount) internal returns (bool) { _balances[sender] = _balances[sender].sub(amount, "Insufficient Balance"); _balances[recipient] = _balances[recipient].add(amount); emit Transfer(sender, recipient, amount); return true;

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Findings

Swap Back may revert

Description

The swap back function may not work properly because it uses "liquidityFee" in the calculation which is set to zero in the contract and can never be updated so, the value of "amountToLiquify" will always be zero

Affected Lines	Severity	Contract	#code
147	Low	SPACELON	function swapBack() internal swapping { uint256 contractTokenBalance = swapThreshold; uint256 amountToLiquify = contractTokenBalance.mul(liquidityFee).div(totalFee).div(2); uint256 amountToSwap = contractTokenBalance.sub(amountToLiquify);

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Findings

Floating Pragma

Description

The current pragma Solidity directive is “^0.8.7". Contracts should be deployed with the same compiler version and flags that they have been tested thoroughly. Locking the pragma helps to ensure that contracts do not accidentally get deployed using other versions.

Affected Lines	Severity	Contract	#code
-	Low	SPACELON	-

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Findings

Constable states

Description

Some state variables are never updated in the contract and should be declared constant

Affected Lines	Severity	Contract	#code
28	Informational	SPACELON	uint256 liquidityFee = 0; // Auto liquidiy added & burned
29	Informational	SPACELON	uint256 marketingFee = 50;
30	Informational	SPACELON	uint256 totalFee = liquidityFee + marketingFee;
31	Informational	SPACELON	uint256 feeDenominator = 1000;
33	Informational	SPACELON	address public marketingFeeReceiver = 0x12ed7DE8FF1dC1939148F294D87C7A4Ff4e18d54;

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Contract doesn't import npm packages from source (like OpenZeppelin etc.):

We recommend importing all packages from npm directly without flattening the contract. Functions could be modified or can be susceptible to vulnerabilities

Severity - Informational

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Additional Comments:

The clear stuck balance functions of lines 200 and 204 can be called by anyone and by doing so, the contract's balance will be transferred to the marketingFeeReceiver Address which is 0x12ed7DE8FF1dC1939148F294D87C7A4Ff4e18d54

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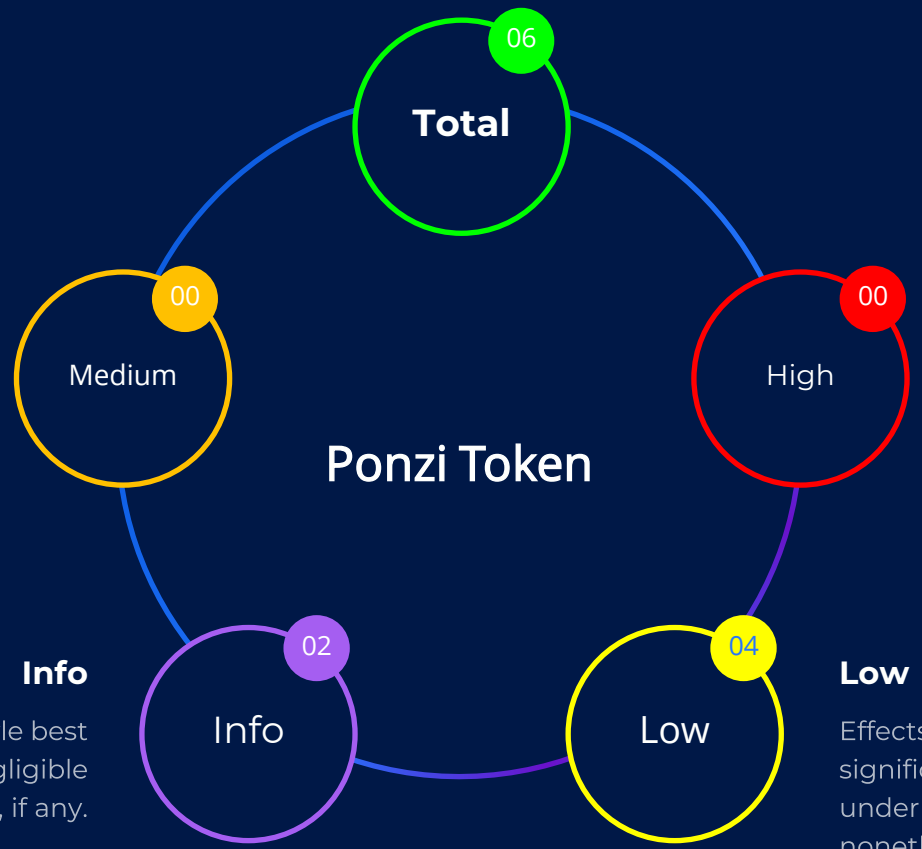
Technical Findings Summary

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.

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Priviliged Functions (onlyOwner & Others)

Function Name	Parameters	Visibility
✓ renounceOwnership	▪ none	▪ **external**
✓ transferOwnership	▪ address newOwner	▪ **public**
✓ prepareForPartherOrExchang eListing	▪ address_partnerOrExchangeAddress	▪ **external**
✓ setWalletBalance	▪ uint256 _maxWalletBalance	▪ **external**
✓ setMaxBuyTransaction	▪ uint256 _maxTxn	▪ **external**
✓ setMaxSellTransaction	▪ uint256 _maxTxn	▪ **external**
✓ updateBusdDividendToken	▪ address _newContract	▪ **external**
✓ updateMarketingWallet	▪ address _newWallet	▪ **external**
✓ setSwapTokensAtAmount	▪ uint256 _swapAmount	▪ **external**
✓ setSellTransactionMultiplier	▪ uint256 _multiplier	▪ **external**
✓ setTradingIsEnabled	▪ none	▪ **external**
✓ setBusdDividendEnabled	▪ bool _enabled	▪ **external**
✓ setMarketingEnabled	▪ bool _enabled	▪ **external**
✓ setSwapAndLiquifyEnabled	▪ bool _enabled	▪ **external**
✓ updatebusdDividendTracker	▪ address newAddress	▪ **external**
✓ updateUniswapV2Router	▪ address newAddress	▪ **external**

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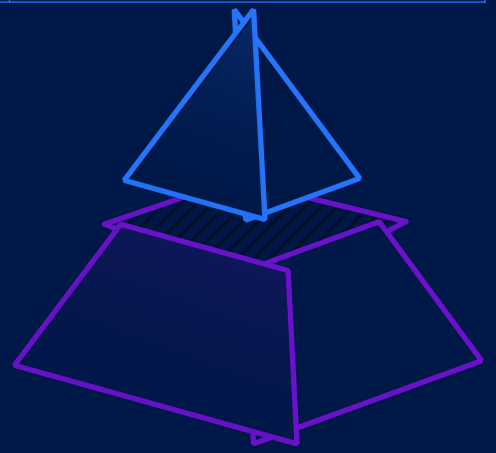
Priviliged Functions (onlyOwner & Others)

Function Name	Parameters	Visibility
✓ excludeFromFees	▪ address account, bool excluded	▪ **public**
✓ excludeFromDividend	▪ address account	▪ **public**
✓ setAutomatedMarketMakerP air	▪ address pair, bool value	▪ **external**
✓ updateGasForProcessing	▪ uint256 newValue	▪ **external**
✓ updateMinimumBalanceForDi vidends	▪ uint256 newMinimumBalance	▪ **external**
✓ updateClaimWait	▪ uint256 claimWait	▪ **external**
✓ processDividendTracker	▪ uint256 gas	▪ **external**



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Statistics

Liquidity Info

Parameter	Result
Pair Address	0xBba15555FefBbB0FE8a2e86Ba8bADafC8F19eB8e
SPACELON Reserves	0 SPACELON
Reserves, ETH	0 -
Liquidity Value	$ 0

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Statistics

Token (SPACELON) Holders Info

Parameter	Result
SPACELON Percentage Burnt	0 %
SPACELON Amount Burnt	0 SPACELON
Top 10 Percentage Own	100 %
Top 10 Amount Owned	420,420,420 SPACELON

Rank	Address	Quantity (Token)	Percentage
1	0x1acd50db76bbe0400db475d6e3a5ac81a7a52e9f	420,420,420	100.0000%

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