

Blockchain Security | Smart Contract Audits | KYC

MADE IN GERMANY

Spacelon X

Audit

Security Assessment 10. May, 2022

For



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Version	Date	Description
1.0	10. May 2022	Layout projectAutomated-/Manual-Security TestingSummary

Network

Binance Smart Chain (BEP20)

Website

https://spacelonx.io/

Telegram

https://t.me/spacelonx_international

Twitter

https://twitter.com/spacelonx

Instagram

https://www.instagram.com/spacelonx_

Description

Welcome to Spacelon X, a community driven token. Learn the true story of the colonization of Mars and how Spacelon X helped to save the world.

Project Engagement

During the Date of May 2022, **Spacelon X Team** engaged Solidproof.io to audit smart contracts that they created. The engagement was technical in nature and focused on identifying security flaws in the design and implementation of the contracts. They provided Solidproof.io with access to their code repository and whitepaper.





Contract Link v1.0

https://bscscan.com/address/
 0x8C3B58D50886dE1Da74CDd00aFac59dA0d4a2A2a#code

Vulnerability & Risk Level

Risk represents the probability that a certain source-threat will exploit vulnerability, and the impact of that event on the organization or system. Risk Level is computed based on CVSS version 3.0.

Level	Value	Vulnerability	Risk (Required Action)
Critical	9 - 10	A vulnerability that can disrupt the contract functioning in a number of scenarios, or creates a risk that the contract may be broken.	Immediate action to reduce risk level.
High	7 – 8.9	A vulnerability that affects the desired outcome when using a contract, or provides the opportunity to use a contract in an unintended way.	Implementation of corrective actions as soon aspossible.
Medium	4 – 6.9	A vulnerability that could affect the desired outcome of executing the contract in a specific scenario.	Implementation of corrective actions in a certain period.
Low	2 – 3.9	A vulnerability that does not have a significant impact on possible scenarios for the use of the contract and is probably subjective.	Implementation of certain corrective actions or accepting the risk.
Informational	0 – 1.9	A vulnerability that have informational character but is not effecting any of the code.	An observation that does not determine a level of risk

Auditing Strategy and Techniques Applied

Throughout the review process, care was taken to evaluate the repository for security-related issues, code quality, and adherence to specification and best practices. To do so, reviewed line-by-line by our team of expert pentesters and smart contract developers, documenting any issues as there were discovered.

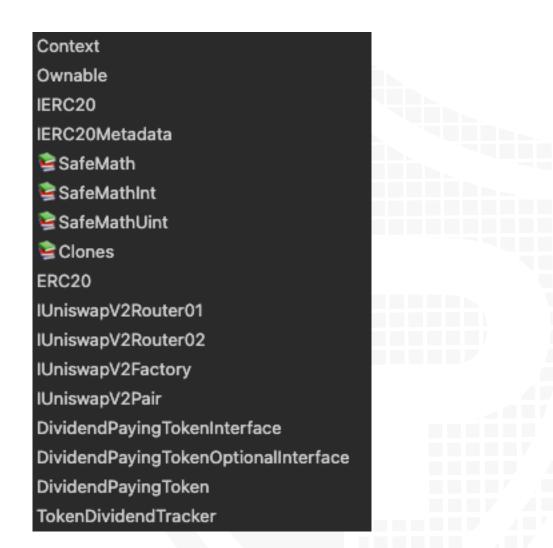
Methodology

The auditing process follows a routine series of steps:

- 1. Code review that includes the following:
 - i) Review of the specifications, sources, and instructions provided to SolidProof to make sure we understand the size, scope, and functionality of the smart contract.
 - ii) Manual review of code, which is the process of reading source code line-byline in an attempt to identify potential vulnerabilities.
 - iii) Comparison to specification, which is the process of checking whether the code does what the specifications, sources, and instructions provided to SolidProof describe.
- 2. Testing and automated analysis that includes the following:
 - i) Test coverage analysis, which is the process of determining whether the test cases are actually covering the code and how much code is exercised when we run those test cases.
 - ii) Symbolic execution, which is analysing a program to determine what inputs causes each part of a program to execute.
- 3. Best practices review, which is a review of the smart contracts to improve efficiency, effectiveness, clarify, maintainability, security, and control based on the established industry and academic practices, recommendations, and research.
- 4. Specific, itemized, actionable recommendations to help you take steps to secure your smart contracts.

Used Code from other Frameworks/Smart Contracts (direct imports)

Imported packages:



Tested Contract Files

This audit covered the following files listed below with a SHA-1 Hash.

A file with a different Hash has been modified, intentionally or otherwise, after the security review. A different Hash could be (but not necessarily) an indication of a changed condition or potential vulnerability that was not within the scope of this review.

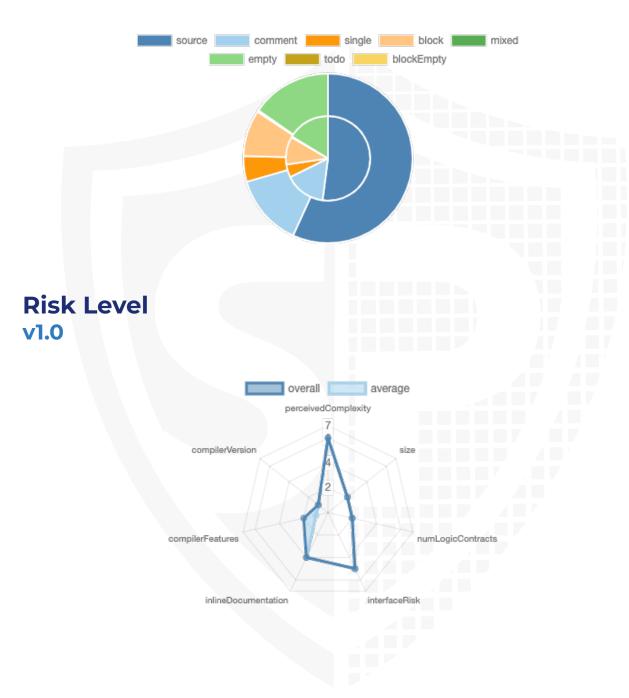
v1.0

File Name	SHA-1 Hash
contracts/spacelonx.sol	a1ed1d61f2c3540aaa7c29fe13ae3cd7f0f8fd75



Metrics

Source Lines v1.0



Capabilities

Components

Version	Contracts	Libraries	Interfaces	Abstract
1.0	4	4	8	2

Exposed Functions

This section lists functions that are explicitly declared public or payable. Please note that getter methods for public stateVars are not included.

Ver	sion	Public	Payable
1.0		138	6

Version External		Internal	Private	Pure	View
1.0	93	122	8	28	63

State Variables

Version	Total	Public
1.0	44	28

Capabilities

Version	Solidity Versions observed	Experim ental Features	Can Receive Funds	Uses Assembl Y	Has Destroya ble Contract s
1.0	^0.8.0		yes	yes (3 asm blocks)	

Version	Transfer s ETH	Low- Level Calls	Deleg ateCa II	Uses Hash Function s	EC Rec ove r	New/ Create/ Create2
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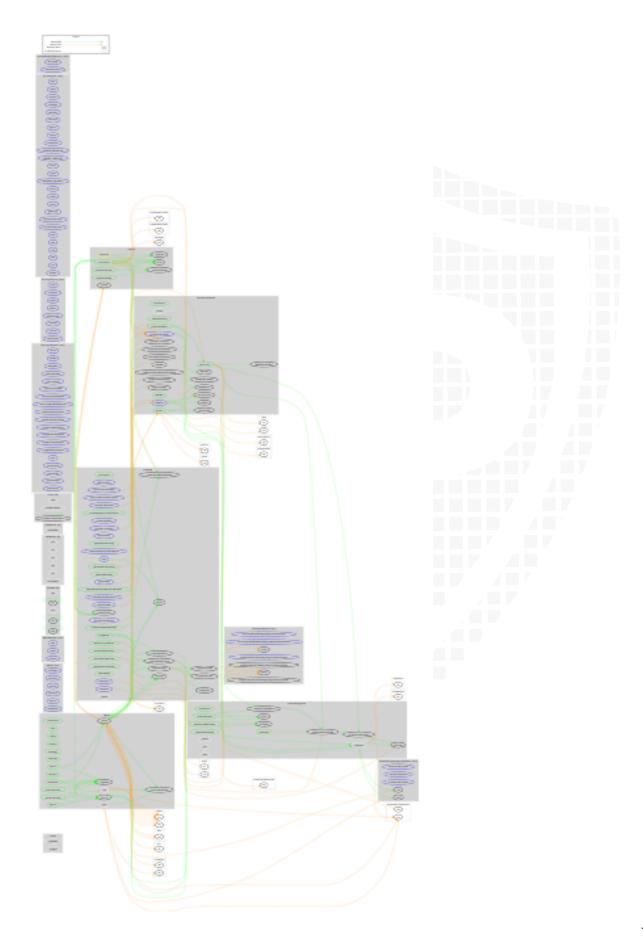
			yes
			→ Asse
			mblyCa
			11:Nam
			e:crea
			te
			→ Asse
			mblyCa
1.0	yes		11:Nam
			e:crea
			te2
			→ NewC
			ontrac
			t:Toke
			nDivid
			endTra
			cker

Inheritance Graph v1.0



CallGraph

v1.0



Scope of Work/Verify Claims

The above token Team provided us with the files that needs to be tested (Github, Bscscan, Etherscan, files, etc.). The scope of the audit is the main contract (usual the same name as team appended with .sol).

We will verify the following claims:

- 1. Correct implementation of Token standard
- 2. Deployer cannot mint any new tokens
- 3. Deployer cannot burn or lock user funds
- 4. Deployer cannot pause the contract
- 5. Overall checkup (Smart Contract Security)

Correct implementation of Token standard

	ERC20							
Function	Function Description							
TotalSupply	Provides information about the total token supply	√	√	✓				
BalanceOf	Provides account balance of the owner's account	\checkmark	√	\checkmark				
Transfer	Executes transfers of a specified number of tokens to a specified address	√	√	√				
TransferFrom	Executes transfers of a specified number of tokens from a specified address	√	√	√				
Approve	Allow a spender to withdraw a set number of tokens from a specified account	√	√	√				
Allowance	Returns a set number of tokens from a spender to the owner	√	√	√				

Write functions of contract v1.0

24. updateUniswapV2Router

1. EnemyAddress	
2. approve	
3. claim	
5. Claim	
4. decreaseAllowance	
5. excludeFromDividends	
6. excludeFromFees	
7. excludeMultipleAccountsFromFees	
8. increaseAllowance	
9. processDividendTracker	
10. renounceOwnership	
11. setAutomatedMarketMakerPair	
12. setBuyTaxes	47 47
13. setDeadWallet	
14. setMarketingWallet	
15. setSelTaxes	
16. setSwapTokensAtAmount	
17. swapManual	
18. transfer	
19. transferFrom	
20. transferOwnership	
Od and date Olyllan W. Tr	
21. updateClaimWait	
22. updateGasForProcessing	
23. updateMinimumTokenBalanceForDividends	

Deployer cannot mint any new tokens

Name	Exist	Tested	Status
Deployer cannot mint	√	√	√
Max / Total Supply	10	000000	000000

Comments:

v1.0

 Tokens will be minted while setting balance in _setBalance function L932

Deployer cannot burn or lock user funds

Name	Exist	Tested	Status
Deployer cannot lock	\checkmark	√	X
Deployer cannot burn	√	√	\checkmark

Comments:

v1.0

- · Owner can lock user funds by
 - · blacklisting addresses. It is called enemy in this contract
- Tokens
 - · will be burned while tx
 - · can be burned by the owner
 - · can be burned by msg.sender
- Tokens will be burned while setting balance in _setBalance function L932

Deployer cannot pause the contract

Name	Exist	Tested	Status
Deployer cannot pause	-	_	-



Overall checkup (Smart Contract Security)

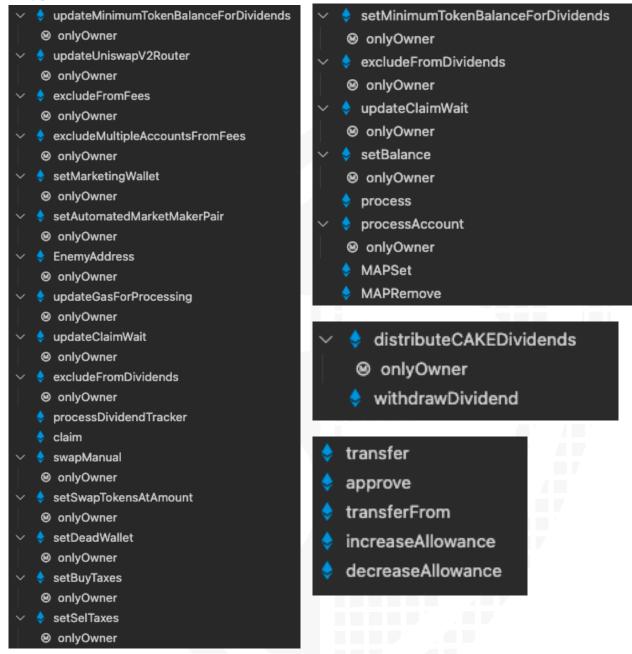


Legend

Attribute	Symbol
Verfified / Checked	\checkmark
Partly Verified	P
Unverified / Not checked	X
Not available	-

Modifiers and public functions

v1.0



Comments

- · Deployer can set following state variables without any limitations
 - swapTokensAtAmount
 - minimumTokenBalanceForDividends
- Deployer can enable/disable following state variables
 - _isEnemy
 - automatedMarketMakerPairs
 - isExcludedFromFees
 - excludedFromDividends

- Deployer can set following addresses
 - deadWallet
 - _marketingWalletAddress
 - uniswapV2Router
 - uniswapV2Pair
- Existing Modifiers
 - onlyOwner
- · Following functions are callable from anyone
 - MAPRemove
 - MAPSet
- We recommend you to set these functions to private, that no one can call this from outside

Please check if an OnlyOwner or similar restrictive modifier has been forgotten.

Source Units in Scope

v1.0

Туре	File	Logic Contracts	Interfaces	Lines	nLines	nSLOC	Comment Lines	Complex. Score	Capabilities
 >≥ > >	contracts/spacelonx.sol	10	8	1695	1370	853	272	955	■Š♣6 ☼?
≥ €Q	Totals	10	8	1695	1370	853	272	955	

Legend

_	
Attribute	Description
Lines	total lines of the source unit
nLines	normalized lines of the source unit (e.g. normalizes functions spanning multiple lines)
nSLOC	normalized source lines of code (only source-code lines; no comments, no blank lines)
Comment Lines	lines containing single or block comments
Complexity Score	a custom complexity score derived from code statements that are known to introduce code complexity (branches, loops, calls, external interfaces,)

Audit Results

AUDIT PASSED

Critical issues

No critical issues

High issues

No high issues

Medium issues

No medium issues

Low issues

Issue	File	Туре	Line	Description
#1	Main	Contract doesn't import npm packages from source (like OpenZeppelin etc.)		We recommend to import all packages from npm directly without flatten the contract. Functions could be modified or can be susceptible to vulnerabilities
#2	Main	A floating pragma is set	6	The current pragma Solidity directive is ""^0.8.0"".
#3	Main	Missing Zero Address Validation (missing- zero-check)	1327, 1500, 1379, 1355, 820	Check that the address is not zero
#4	Main	Local variables shadowing	1312, 892, 820, 868, 875, 882	Rename the local variables that shadow another component
#5	Main	Missing Events Arithmetic	1506, 1507, 1508, 1509, 1515, 1516, 1517, 1518, 1497	Emit an event for critical parameter changes

Informational issues

Issue	File	Type	Line	Description
#1	Main	Unused state variables	142	Remove unused state variables
#2	Main	Misspelling	See description	Change following words: - tokensIntoLiqudity L1271 Make sure to change it everywhere else as well.
#3	Main	Error message is missing	989, 903, 826, All SafeMaths requiremen ts	Provide an error message for require statement
#4	Main	NatSpec documentation missing	-	If you started to comment your code, also comment all other functions, variables etc.
#5	Main	Wrong comment	999, 1000	Contract is not named as UDAO. Modify comments.

#6	Main	Not reachable code	905-907	Remove following red marked code because its not reachable: function _transfer(address from, address to, uint256 value) internal virtual override { require(false);
				<pre>int256 _magCorrection = magnifiedDividendPerShare. mul(value).toInt256Safe();</pre>
				<pre>magnifiedDividendCorrectio ns[from] = magnifiedDividendCorrectio ns[from].add(_magCorrectio n);</pre>
				<pre>magnifiedDividendCorrectio ns[to] = magnifiedDividendCorrectio ns[to].sub(_magCorrection); }</pre>

Commented Code exist

There are some instances of code being commented out in the following files that should be removed:

File	Line	Comment
Main	125	<pre>// assert(a == b * c + a % b); // There is no case in which this doesn't hold</pre>

Recommendation

Remove the commented code, or address them properly.

Audit Comments

We recommend you to use the special form of comments (NatSpec Format, Follow link for more information https://docs.soliditylang.org/en/v0.5.10/natspec-format.html) for your contracts to provide rich documentation for functions, return variables and more. This helps investors to make clear what that variables, functions etc. do.

10. May 2022:

- · Please read modifier section carefully
- · Read whole report for more information



SWC Attacks

ID	Title	Relationships	Status
<u>SW</u> <u>C-1</u> <u>36</u>	Unencrypted Private Data On-Chain	CWE-767: Access to Critical Private Variable via Public Method	PASSED
<u>SW</u> <u>C-1</u> <u>35</u>	Code With No Effects	CWE-1164: Irrelevant Code	NOT PASSED
<u>SW</u> <u>C-1</u> <u>34</u>	Message call with hardcoded gas amount	CWE-655: Improper Initialization	PASSED
<u>SW</u> <u>C-1</u> <u>33</u>	Hash Collisions With Multiple Variable Length Arguments	CWE-294: Authentication Bypass by Capture-replay	PASSED
<u>SW</u> <u>C-1</u> <u>32</u>	Unexpected Ether balance	CWE-667: Improper Locking	PASSED
<u>SW</u> <u>C-1</u> <u>31</u>	Presence of unused variables	CWE-1164: Irrelevant Code	NOT PASSED
<u>SW</u> <u>C-1</u> <u>30</u>	Right-To-Left- Override control character (U+202E)	CWE-451: User Interface (UI) Misrepresentation of Critical Information	PASSED
<u>SW</u> <u>C-1</u> <u>29</u>	Typographical Error	CWE-480: Use of Incorrect Operator	PASSED
<u>SW</u> <u>C-1</u> <u>28</u>	DoS With Block Gas Limit	CWE-400: Uncontrolled Resource Consumption	PASSED

<u>SW</u> <u>C-1</u> <u>27</u>	Arbitrary Jump with Function Type Variable	CWE-695: Use of Low-Level Functionality	PASSED
<u>SW</u> <u>C-1</u> <u>25</u>	Incorrect Inheritance Order	CWE-696: Incorrect Behavior Order	PASSED
<u>SW</u> C-1 24	Write to Arbitrary Storage Location	CWE-123: Write-what-where Condition	PASSED
SW C-1 23	Requirement Violation	CWE-573: Improper Following of Specification by Caller	PASSED
<u>SW</u> <u>C-1</u> <u>22</u>	Lack of Proper Signature Verification	CWE-345: Insufficient Verification of Data Authenticity	PASSED
<u>SW</u> <u>C-1</u> <u>21</u>	Missing Protection against Signature Replay Attacks	CWE-347: Improper Verification of Cryptographic Signature	PASSED
<u>SW</u> <u>C-1</u> <u>20</u>	Weak Sources of Randomness from Chain Attributes	CWE-330: Use of Insufficiently Random Values	PASSED
<u>SW</u> <u>C-11</u> <u>9</u>	Shadowing State Variables	CWE-710: Improper Adherence to Coding Standards	NOT PASSED
<u>SW</u> <u>C-11</u> <u>8</u>	Incorrect Constructor Name	CWE-665: Improper Initialization	PASSED
<u>SW</u> <u>C-11</u> <u>7</u>	Signature Malleability	CWE-347: Improper Verification of Cryptographic Signature	PASSED

<u>SW</u> <u>C-11</u> <u>6</u>	Timestamp Dependence	CWE-829: Inclusion of Functionality from Untrusted Control Sphere	PASSED
<u>SW</u> <u>C-11</u> <u>5</u>	Authorization through tx.origin	CWE-477: Use of Obsolete Function	PASSED
<u>SW</u> <u>C-11</u> <u>4</u>	Transaction Order Dependence	CWE-362: Concurrent Execution using Shared Resource with Improper Synchronization ('Race Condition')	PASSED
<u>SW</u> <u>C-11</u> <u>3</u>	DoS with Failed Call	CWE-703: Improper Check or Handling of Exceptional Conditions	PASSED
<u>SW</u> <u>C-11</u> <u>2</u>	Delegatecall to Untrusted Callee	CWE-829: Inclusion of Functionality from Untrusted Control Sphere	PASSED
<u>SW</u> <u>C-11</u> <u>1</u>	Use of Deprecated Solidity Functions	CWE-477: Use of Obsolete Function	PASSED
<u>SW</u> <u>C-11</u> <u>O</u>	Assert Violation	CWE-670: Always-Incorrect Control Flow Implementation	PASSED
SW C-1 09	Uninitialized Storage Pointer	CWE-824: Access of Uninitialized Pointer	PASSED
<u>SW</u> <u>C-1</u> <u>08</u>	State Variable Default Visibility	CWE-710: Improper Adherence to Coding Standards	PASSED
SW C-1 07	Reentrancy	CWE-841: Improper Enforcement of Behavioral Workflow	PASSED
<u>SW</u> <u>C-1</u> <u>06</u>	Unprotected SELFDESTRUC T Instruction	CWE-284: Improper Access Control	PASSED

<u>SW</u> <u>C-1</u> <u>05</u>	Unprotected Ether Withdrawal	CWE-284: Improper Access Control	PASSED
<u>SW</u> <u>C-1</u> <u>04</u>	Unchecked Call Return Value	CWE-252: Unchecked Return Value	PASSED
<u>SW</u> <u>C-1</u> <u>03</u>	Floating Pragma	CWE-664: Improper Control of a Resource Through its Lifetime	NOT PASSED
<u>SW</u> <u>C-1</u> <u>02</u>	Outdated Compiler Version	CWE-937: Using Components with Known Vulnerabilities	PASSED
<u>SW</u> <u>C-1</u> <u>01</u>	Integer Overflow and Underflow	CWE-682: Incorrect Calculation	PASSED
<u>SW</u> <u>C-1</u> <u>00</u>	Function Default Visibility	CWE-710: Improper Adherence to Coding Standards	PASSED



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