



SOLIDProof
Bring trust into your projects

Blockchain Security | Smart Contract Audits | KYC

MADE IN GERMANY

Audit

Security Assessment
06. January, 2022

For



Mammon

YOUR GREED LEADS TO LIMITLESS WEALTH AND TREASURE.

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Disclaimer

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Version	Date	Description
1.0	06. January 2022	<ul style="list-style-type: none">• Layout project• Automated- /Manual-Security Testing• Summary

Network

Binance Smart Chain (BEP20)

Website

Telegram

Twitter

Facebook

Instagram

Github

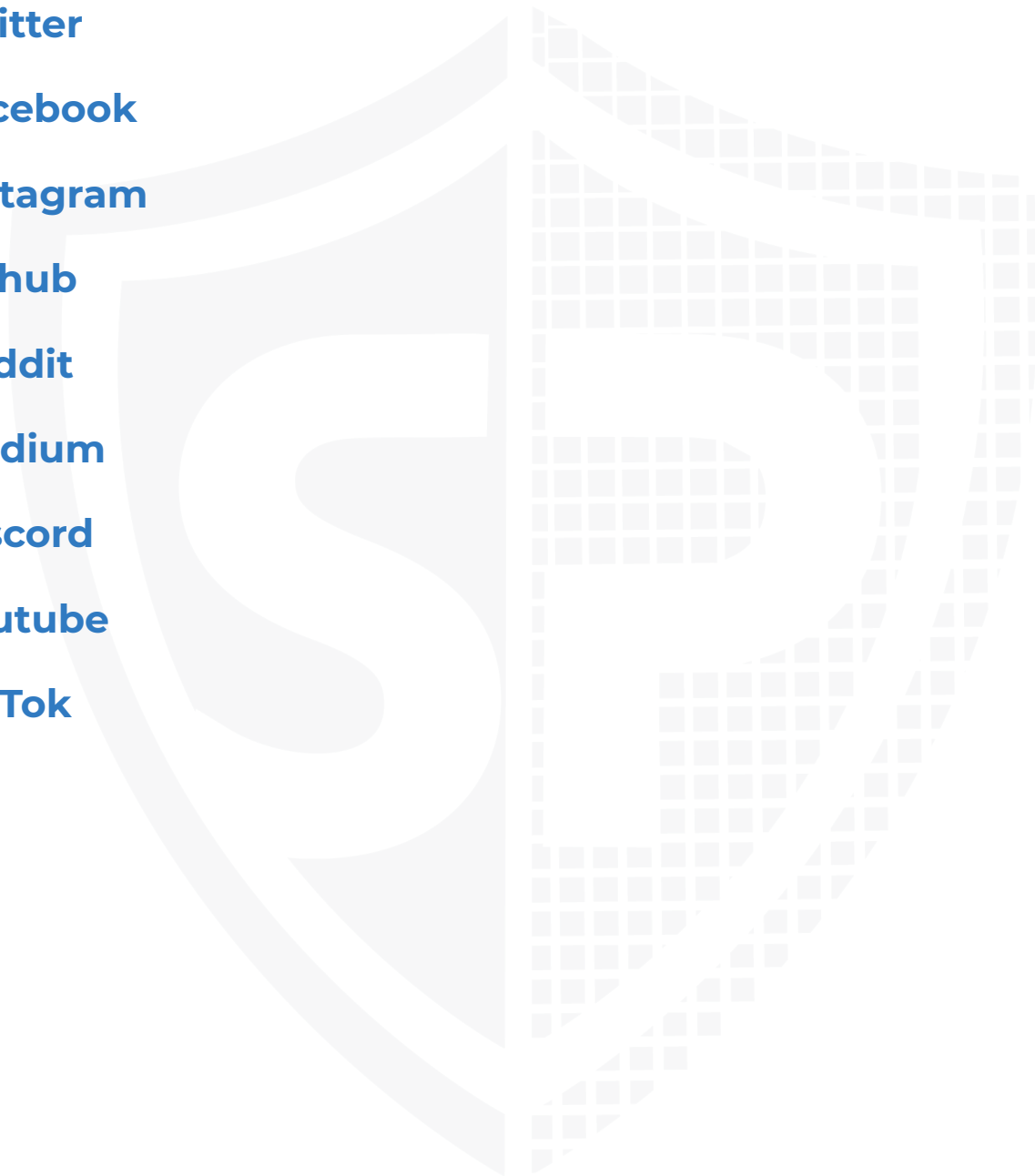
Reddit

Medium

Discord

Youtube

TikTok



Description

Mammon is a project of greed, what does it mean? Well, human greed is limitless considering the fact that we make \$1 we choose to double it over and over at the end no matter how much it doubles we want more. This is the fundamental cause to why we have created the perfect project, we believe our mechanism of Mammon is unique on its way since it increases everyone's greed. Be part of Mammon you will get limitless wealth and treasure.

A First and foremost, we're delighted to present to you our project "Mammon." There is no question that this will be a great experience, a fresh start, and we think that "Mammon" will bring you tremendous wealth in the form of BTC, ETH, SHIBA, DOGE, and other cryptocurrencies as long as all of the individuals engaged in this project remain true and faithful to it. We hope you thoroughly examine our white paper it might be your final opportunity

Project Engagement

During the 5th of January 2022, **Mammon 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.

Logo



Mammon

YOUR GREED LEADS TO LIMITLESS WEALTH AND TREASURE.

Contract Link

v1.0

- <https://bscscan.com/address/0x219cb63b1dfc5eb456c6204476dde2edf274b997#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 as possible.
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-by-line 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:

IBEP20

 SafeMath

Context

 Address

Ownable

IUniswapV2Factory

IUniswapV2Pair

IUniswapV2Router01

IUniswapV2Router02

Tested Contract Files

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

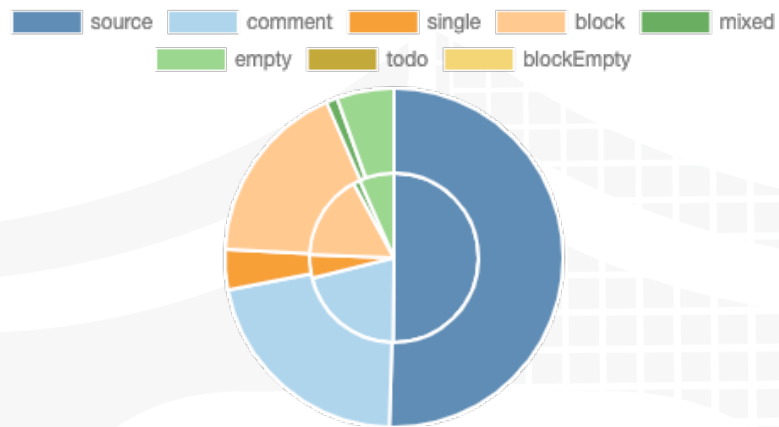
A file with a different Hash has been modified, intentionally or otherwise, after the security review. A different Hash could be (but not necessarily) an indication of a changed condition or potential vulnerability that was not within the scope of this review.

v1.0

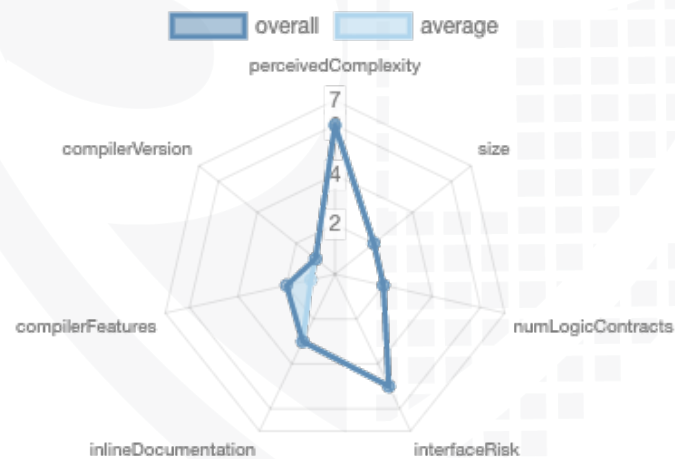
File Name	SHA-1 Hash
contracts/mammon.sol	8a5c75b5beb4035617ea06475e215c45321f5188

Metrics

Source Lines v1.0



Risk Level v1.0



Capabilities

Components

Version	Contracts	Libraries	Interfaces	Abstract
1.0	2	2	5	1

Exposed Functions

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

Version	Public	Payable
1.0	116	5

Version	External	Internal	Private	Pure	View
1.0	82	113	28	21	39

State Variables

Version	Total	Public
1.0	54	28

Capabilities

Version	Solidity Versions observed	Experimental Features	Can Receive Funds	Uses Assembly	Has Destroyable Contracts
1.0	^0.8.4		yes	yes (2 asm blocks)	

Version	Transfers ETH	Low-Level Calls	DelegateCall	Uses Hash Functions	ECRecover	New/ Create/ Create2
1.0	yes			yes		



Scope of Work

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)

Inheritance Graph v1.0



Verify Claims

Correct implementation of Token standard

Tested	Verified
✓	✓

Function	Description	Exist	Tested	Verified
TotalSupply	provides information about the total token supply	✓	✓	✓
BalanceOf	provides account balance of the owner's account	✓	✓	✓
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

1. approve	29. setMaxTxPercent
2. decreaseAllowance	
3. excludeFromFee	30. setNumTokensSellToAddToLiquidity
4. includeInFee	
5. increaseAllowance	31. setSwapAndLiquidityEnabled
6. isLuckAddress	
7. lockLongTime	32. setTxgoldAddress
8. lockShortTime	
9. recoverTokens	33. setTxgoldFeePercent
10. renounceOwnership	
11. rescueBNB	34. setUniswapPair
12. rescueBUSD	
13. rescueUSDT	35. setUniswapRouter
14. rescueWBNB	
15. setAntiWhaleEnabled	36. transfer
16. setAntiWhaleThreshold	
17. setBurnFeePercent	37. transferFrom
18. setDaySellNumber	
19. setDrawNumerator	38. transferOwnership
20. setDrawTime	
21. setExcludedFromAntiWhale	39. unlock
22. setExcludedSendDraw	
23. setFomoEnable	
24. setFomoFeePercent	
25. setFomoSpacedTime	
26. setLiquidityFeePercent	
27. setMarketingAddress	
28. setMarketingFeePercent	

Deployer cannot mint any new tokens

Name	Exist	Tested	Verified
Deployer cannot mint	—	—	—

Max / Total Supply: 100.000.000.000



Deployer cannot burn or lock user funds

Name	Exist	Tested	Verified
Deployer cannot lock	✓	✓	✗
Deployer cannot burn	✓	✓	✓

Comments:

v1.0

- Tokens will burn while transfer
- Deployer can lock user funds
 - By setting maxTxAmount to 0
- Address can only transfer if the address state is lock true and the sellNumber is higher than
- If anti whale is enabled
 - Amount must be lower than antiwhalethreshold which can be set without any limitations

Deployer cannot pause the contract

Name	Exist	Tested	Verified
Deployer cannot pause	—	—	—



Overall checkup (Smart Contract Security)

Tested	Verified
✓	✓

Legend

Attribute	Symbol
Verified / Checked	✓
Partly Verified	⚠
Unverified / Not checked	✗
Not available	—

Modifiers

onlyOwner

```
setUniswapRouter
setUniswapPair
excludeFromFee
includeInFee
setTxgoldFeePercent
setMarketingFeePercent
setBurnFeePercent
setFomoFeePercent
setFomoEnable
setNumTokensSellToAddToLiquidity
setTxgoldAddress
setMarketingAddress
setLiquidityFeePercent
setFomoSpacedTime
setMaxTxPercent
setSwapAndLiquidityEnabled
setAntiWhaleEnabled
setAntiWhaleThreshold
setExcludedFromAntiWhale
setExcludedSendDraw
setDrawNumerator
setDrawTime
setDaySellNumber
rescueWBNB
rescueUSDT
rescueBUSD
rescueBNB
recoverTokens
```

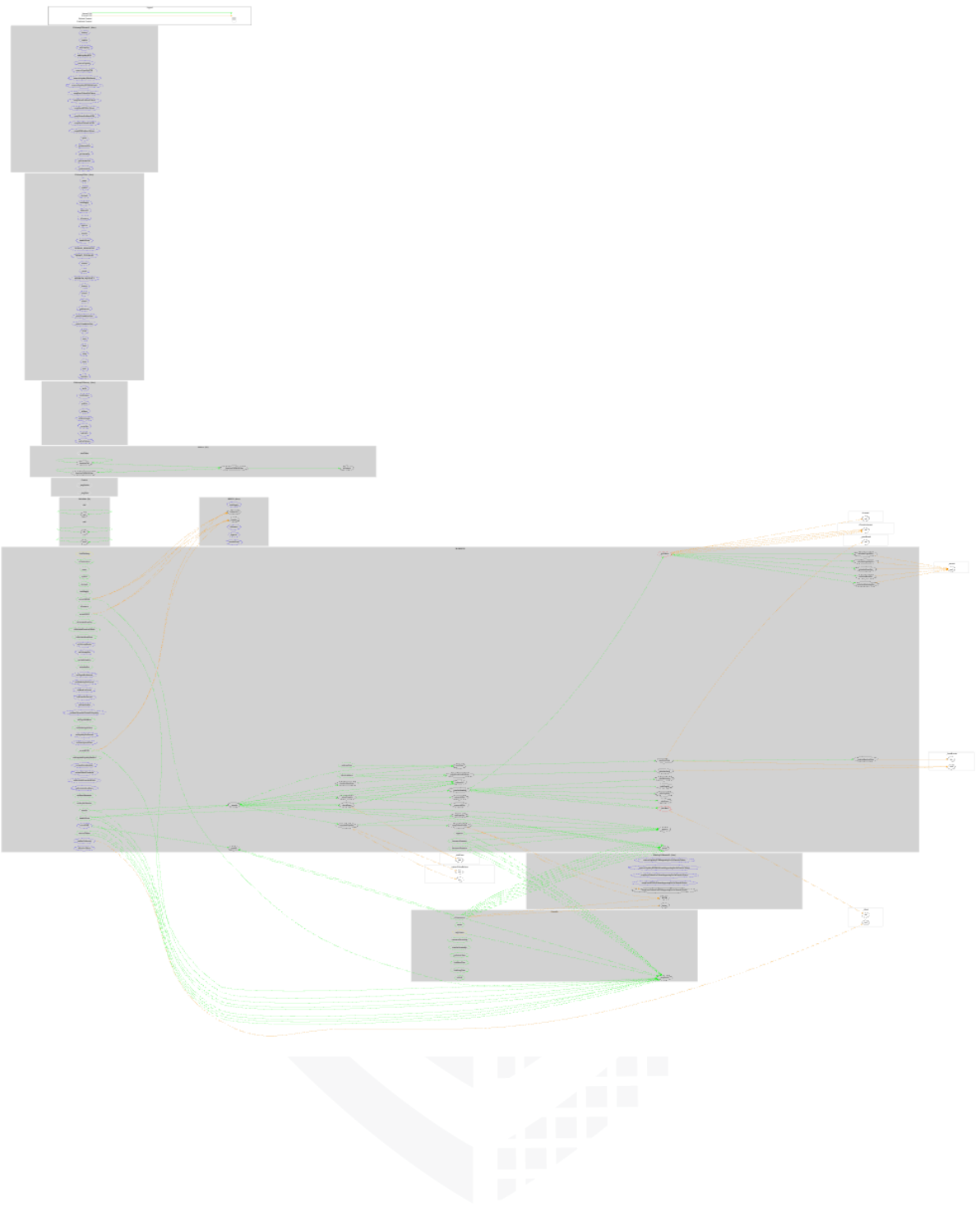
Comments

- Deployer can set following state variables without any limitations
 - `_numTokensSellToAddToLiquidity`
 - `_liquidityFee`
 - `fomoSpacedTime`
 - `_maxTxAmount`
 - `_isExcludedFromAntiWhale`
 - `_isExcludedSendDraw`
 - `_fixedTime`
 - `_floatTime`
 - `_daySellNumber`

-
- Deployer can enable/disable following state variables
 - `_isExcludedFromFee`
 - `_sendFomoEnable`
 - `swapAndLiquidityEnabled`
 - `_isAntiWhaleEnabled`
 - `_antiWhaleThreshold`
- Owner can recover tokens by calling `recoverTokens`
 - `tOwned` will be subtract from contract and will be added to `tOwned` owner







CallGraph



Source Units in Scope

v1.0

Type	File	Logic Contracts	Interfaces	Lines	nLines	nSLOC	Comment Lines	Complex. Score	Capabilities
	contracts/mammon.sol	5	5	1344	1106	726	379	690	
	Totals	5	5	1344	1106	726	379	690	

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 found -

High issues

- no high issues found -

Medium issues

Issue	File	Type	Line	Description
#1	Main	Unchecked tokens transfer	987, 980, 973	Use `SafeERC20`, or ensure that the transfer/transferFrom return value is checked

Low issues

Issue	File	Type	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	40	The current pragma Solidity directive is „^0.8.4“.
#3	Main	Local variables shadowing	1147, 820	Rename the local variables that shadow another component

Informational issues

Issue	File	Type	Line	Description
-------	------	------	------	-------------

#1	Main	Unused return values	1308	Ensure that all the return values of the function calls are used and handle both success and failure cases if needed by the business logic
#2	Main	Functions that are not used	362, 326, 335, 349, 358, 276, 302, 250	Remove unused functions
#3	Main	Unused state variables	666	Remove unused state variables
#4	Main	Include old state variables into fee/ antiwhale/draw after changing	909, 918,	Old state variables are not excluded from fee/antiwhale/draw after setting new variables
#5	Main	Naming convention	677, 684, 676, 682, 683	Constants are not upper cased

Commented Code exist

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

Line	Comment
211	// assert(a == b * c + a % b); // There is no case in which this doesn't hold
470, 482, 525, 617	// pragma solidity >=0.5.0;

Recommendation

Remove the commented code, or address them properly.

Audit Comments

06. January 2022:

- Deployer can lock user funds

SWC Attacks

ID	Title	Relationships	Status
SW C-1 36	Unencrypted Private Data On-Chain	CWE-767: Access to Critical Private Variable via Public Method	PASSED
SW C-1 35	Code With No Effects	CWE-1164: Irrelevant Code	PASSED
SW C-1 34	Message call with hardcoded gas amount	CWE-655: Improper Initialization	PASSED
SW C-1 33	Hash Collisions With Multiple Variable Length Arguments	CWE-294: Authentication Bypass by Capture-replay	PASSED
SW C-1 32	Unexpected Ether balance	CWE-667: Improper Locking	PASSED
SW C-1 31	Presence of unused variables	CWE-1164: Irrelevant Code	PASSED
SW C-1 30	Right-To-Left-Override control character (U+202E)	CWE-451: User Interface (UI) Misrepresentation of Critical Information	PASSED
SW C-1 29	Typographical Error	CWE-480: Use of Incorrect Operator	PASSED
SW C-1 28	DoS With Block Gas Limit	CWE-400: Uncontrolled Resource Consumption	PASSED

SW C-1 27	Arbitrary Jump with Function Type Variable	CWE-695: Use of Low-Level Functionality	PASSED
SW C-1 25	Incorrect Inheritance Order	CWE-696: Incorrect Behavior Order	PASSED
SW 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
SW C-1 22	Lack of Proper Signature Verification	CWE-345: Insufficient Verification of Data Authenticity	PASSED
SW C-1 21	Missing Protection against Signature Replay Attacks	CWE-347: Improper Verification of Cryptographic Signature	PASSED
SW C-1 20	Weak Sources of Randomness from Chain Attributes	CWE-330: Use of Insufficiently Random Values	PASSED
SW C-11 9	Shadowing State Variables	CWE-710: Improper Adherence to Coding Standards	PASSED
SW C-11 8	Incorrect Constructor Name	CWE-665: Improper Initialization	PASSED
SW C-11 7	Signature Malleability	CWE-347: Improper Verification of Cryptographic Signature	PASSED

SW C-11 6	Timestamp Dependence	CWE-829: Inclusion of Functionality from Untrusted Control Sphere	PASSED
SW C-11 5	Authorization through tx.origin	CWE-477: Use of Obsolete Function	PASSED
SW C-11 4	Transaction Order Dependence	CWE-362: Concurrent Execution using Shared Resource with Improper Synchronization ('Race Condition')	PASSED
SW C-11 3	DoS with Failed Call	CWE-703: Improper Check or Handling of Exceptional Conditions	PASSED
SW C-11 2	Delegatecall to Untrusted Callee	CWE-829: Inclusion of Functionality from Untrusted Control Sphere	PASSED
SW C-11 1	Use of Deprecated Solidity Functions	CWE-477: Use of Obsolete Function	PASSED
SW C-11 0	Assert Violation	CWE-670: Always-Incorrect Control Flow Implementation	PASSED
SW C-1 09	Uninitialized Storage Pointer	CWE-824: Access of Uninitialized Pointer	PASSED
SW C-1 08	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
SW C-1 06	Unprotected SELFDESTRUCT Instruction	CWE-284: Improper Access Control	PASSED

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

The logo features the words "Solid Proofed" in a white, elegant script font. The word "Solid" is positioned above "Proofed". Behind the text is a faint, stylized shield emblem with a grid-like pattern, rendered in a darker shade of blue. The entire composition is set against a solid blue background.

Solid
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A small horizontal bar representing the German flag, with black, red, and gold stripes.

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