



SOLIDProof
Bring trust into your projects

Blockchain Security | Smart Contract Audits | KYC

MADE IN GERMANY

Audit

Security Assessment
13. December, 2021

For



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SolidProof.io Reports represent an extensive auditing process intending to help our customers increase the quality of their code while reducing the high level of risk presented by cryptographic tokens and blockchain technology. Blockchain technology and cryptographic assets present a high level of ongoing risk. SolidProof’s position is that each company and individual are responsible for their own due diligence and continuous security. SolidProof in no way claims any guarantee of security or functionality of the technology we agree to analyze.

Version	Date	Description
1.0	13. December 2021	<ul style="list-style-type: none">• Layout project• Automated- /Manual-Security Testing• Summary

Network

Binance Smart Chain (BEP20)

Website

<https://dinoland.io/>

Telegram

<https://t.me/dinolandglobal>

Twitter

<https://twitter.com/dinolandgame>

Discord

<https://discord.com/invite/ujctynMMk3>



Description

Welcome to Dinoland.

Let's create, nurture your own dinosaurs to get RICH in this ultimate virtual world.

Join our squad NOW!

Project Engagement

During the 9th of December 2021, **Dinoland 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



Contract Link

v1.0

• TBA

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:

Dependency / Import Path	Count
@openzeppelin/contracts-upgradeable/proxy/utils/Initializable.sol	1
@openzeppelin/contracts-upgradeable/token/ERC721/ERC721Upgradeable.sol	1
@openzeppelin/contracts/access/Ownable.sol	3
@openzeppelin/contracts/security/Pausable.sol	1
@openzeppelin/contracts/security/ReentrancyGuard.sol	2
@openzeppelin/contracts/token/ERC20/ERC20.sol	1
@openzeppelin/contracts/token/ERC20/IERC20.sol	2
@openzeppelin/contracts/token/ERC721/IERC721.sol	1
@openzeppelin/contracts/utils/Strings.sol	1
@openzeppelin/contracts/utils/math/SafeMath.sol	1

Tested Contract Files

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

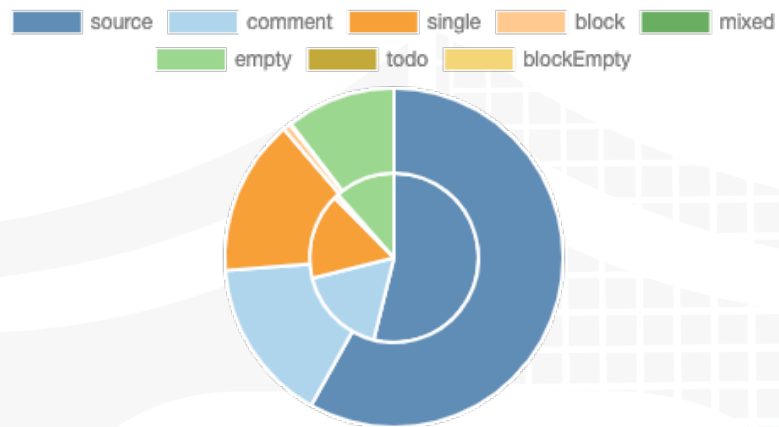
A file with a different Hash has been modified, intentionally or otherwise, after the security review. A different Hash could be (but not necessarily) an indication of a changed condition or potential vulnerability that was not within the scope of this review.

v1.0

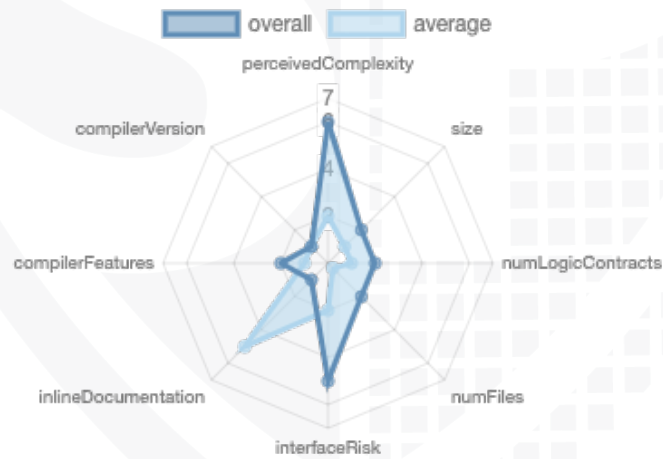
File Name	SHA-1 Hash
contracts/DinoLandNFTUpgradeable.sol	1a716cc65c0160e0dcccdb383d5d0e3d6a9a0df3
contracts/DinosAccessControl.sol	91a7adde291f5a5cef6022d0eaf9b21d2b4109f1
contracts/GameManager.sol	96c7b18ef5f2c178bd1a9a4c6a6bcc19dcb2d46e
contracts/DinoMarketplaceUpgradeable.sol	710a79a7e0e6841f4eeca341278160d04cea20ac
contracts/Dinoland.sol	6118d669b686bebab13be3362cac5d9f642e9486
contracts/TokenTimelock.sol	81f149a928f10ce454d3a05b3a28ab6288381be9
contracts/interface/IDinolandNFT.sol	5ffdeb1664e47e0aab2550df94650fa555c3c3f4

Metrics

Source Lines v1.0



Risk Level v1.0



Capabilities

Components

Version	Contracts	Libraries	Interfaces	Abstract
1.0	7	0	2	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	76	1

Version	External	Internal	Private	Pure	View
1.0	53	83	3	4	25

State Variables

Version	Total	Public
1.0	59	37

Capabilities

Version	Solidity Versions observed	Experimental Features	Can Receive Funds	Uses Assembly	Has Destroyable Contracts
1.0	0.8.4 ^0.8.0		yes	yes (2 asm blocks)	

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

1.0		yes			yes		yes → New Contr act:T imelo ckFac tory → Ass embly Call: Name: creat e → New Contr act:T okenT imelo ck
-----	--	-----	--	--	-----	--	---

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

The image displays three panels, each representing a different smart contract. Each panel has a dark blue header with a dropdown arrow and the contract name. Below the header is a list of functions, each in an orange button. The panels are arranged side-by-side, with the third panel (DINOLANDNFTUPGRADE) being the tallest and containing the most functions.

Contract	Functions
DINOLAND	approve, burn, decreaseAllowance, increaseAllowance, mint, renounceOwnership, transfer, transferFrom, transferOwnership
TOKENTIMELOCK	init, release, split, transferBeneficiary
DINOLANDNFTUPGRADE	approve, createDino, evolveDino, initialize, pause, retireDino, safeTransferFrom, safeTransferFrom, setApprovalForAll, setCEO, setCFO, setCOO, setDNLStorageExten..., setDNLStorageURI, setSpawner, setSpawningManager, transferFrom, unpause, updateDino

▼ DINOMARKETPLACEUPG
bid
buyEgg
cancelAllAuction
cancelAuction
cancelAuctionWhenP...
createAuction
createEgg
disableEgg
initialize
setAdmin
setBlockTime
setDefaultEggPrice
setEggPriceByGenes
setIncubationTime
setMarketManagerAd...
setNftAddress
setSkipHatchCooldown...
setTokenAddress
setTotalSellingEggBy...
skipEggCooldown
updateEggStatus
withdrawAllBalance
withdrawBalance

▼ GAMEMANAGER
openEgg
renounceOwnership
setLotteryEggRate
setMarkeplaceContra...
setNftContractAddress
setNormalEggRate
setWhitelistedAdmin
transferOwnership

Deployer cannot mint any new tokens

File	Name	Exist	Tested	Verified
Dinoland	Deployer cannot mint	✓	✓	✗
DinolandNFTUpgradeable	Deployer cannot mint	✓	✓	✓

Max / Total Supply: 1.000.000.000

Comments:

v1.0

- Dinoland
 - onlyOwner can only mint tokens as long as totalSupply() + amount is less than _maxTotalSupply
- DinolandNFTUpgradeable
 - While creating a Dino it has to mint new nft

Deployer cannot burn or lock user funds

File	Name	Exist	Tested	Verified
Dinoland	Deployer cannot lock	✓	✓	✗
DinolandNFTUpgradeable	Deployer cannot burn	✓	✓	✓

Comments:

v1.0

- Dinoland
 - Everybody can burn
- DinolandNFTUpgradeable
 - retireDino can only call whitelisted and onlySpawner

Deployer cannot pause the contract

File	Name	Exist	Tested	Verified
DinolandNFTUpgradeable	Deployer cannot pause	✓	✓	✗

Comments:

v1.0

- Following roles can pause (CLevel)
 - coo
 - Ceo
 - Coo



Overall checkup (Smart Contract Security)

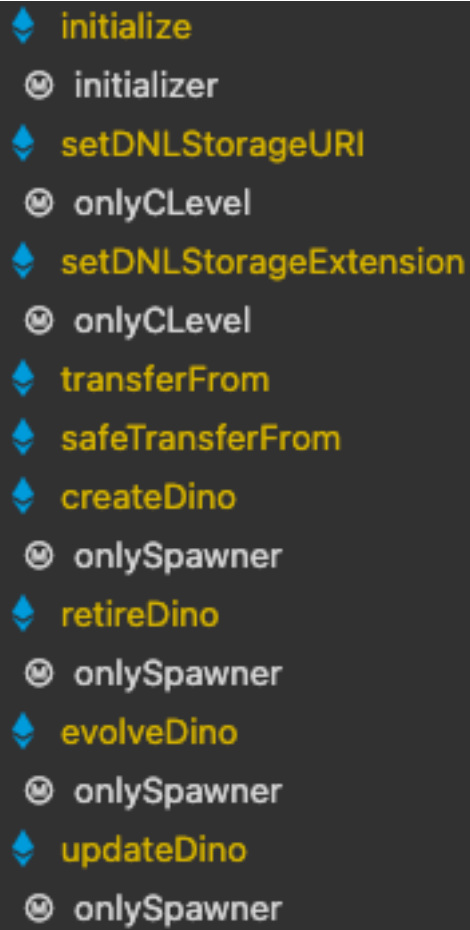
Tested	Verified
✓	✓

Legend

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

Modifiers

- Dinoland
 - onlyOwner
 - mint
- DinoLandNFTUpgradeable



- ◆ initialize
 - Ⓢ initializer
- ◆ setDNLStorageURI
 - Ⓢ onlyCLevel
- ◆ setDNLStorageExtension
 - Ⓢ onlyCLevel
- ◆ transferFrom
- ◆ safeTransferFrom
- ◆ createDino
 - Ⓢ onlySpawner
- ◆ retireDino
 - Ⓢ onlySpawner
- ◆ evolveDino
 - Ⓢ onlySpawner
- ◆ updateDino
 - Ⓢ onlySpawner

- DinoAccessControl

- ◆ setCEO
 - Ⓜ onlyCEO
- ◆ setCFO
 - Ⓜ onlyCEO
- ◆ setCOO
 - Ⓜ onlyCEO
- ◆ setSpawningManager
 - Ⓜ onlyCLevel
- ◆ setSpawner
 - Ⓜ onlySpawningManager
- ◆ pause
 - Ⓜ onlyCLevel
 - Ⓜ whenNotPaused
- ◆ unpause
 - Ⓜ onlyCEO
 - Ⓜ whenPaused

- GameManager

- ◆ setWhitelistedAdmin
 - Ⓜ onlyOwner
- ◆ setNftContractAddress
 - Ⓜ onlyOwner
- ◆ setMarkeplaceContractAddress
 - Ⓜ onlyOwner
- ◆ setNormalEggRate
 - Ⓜ onlyOwner
- ◆ setLotteryEggRate
 - Ⓜ onlyOwner
- ◆ openEgg
 - Ⓜ noContract
 - Ⓜ nonReentrant

-

- DinoMarketplaceUpgradeable

```

initialize
  @ initializer
  <Constructor> 💰
setMarketManagerAddress
  @ onlyMarketManger
setAdmin
  @ onlyMarketManger
setTokenAddress
  @ onlyMarketManger
setNftAddress
  @ onlyMarketManger
setDefaultEggPrice
  @ onlyAdmin
setEggPriceByGenes
  @ onlyAdmin
setIncubationTime
  @ onlyAdmin
setBlockTime
  @ onlyAdmin
setTotalSellingEggByGenes
  @ onlyAdmin
setSkipHatchCooldownPrice
  @ onlyAdmin
updateEggStatus
  @ onlyAdmin
disableEgg
  @ onlyAdmin
skipEggCooldown
  @ onlyEggOwner
buyEgg
  @ nonReentrant
createEgg
  @ onlyAdmin
withdrawBalance
  @ onlyMarketManger
withdrawAllBalance
  @ onlyMarketManger
createAuction
  @ whenNotPaused
  @ nonReentrant
  @ canBeStoredWith128Bits
  @ canBeStoredWith64Bits
bid
  @ whenNotPaused
  @ nonReentrant
cancelAuction
cancelAllAuction
  @ onlyAdmin
cancelAuctionWhenPaused
  @ whenPaused
  @ onlyAdmin

```

Comments

















- Deployer can set following state variables without any limitations
 -
- Deployer can enable/disable following state variables
 -



CallGraph

Source Units in Scope

v1.0

Type	File	Logic Contracts	Interfaces	Lines	nLines	nSLOC	Comment Lines	Complex. Score	Capabilities
	contracts/DinoLandNFTUpgradeable.sol	1	————	313	255	176	58	92	————
	contracts/DinosAccessControl.sol	1	————	128	128	76	28	45	————
 	contracts/GameManager.sol	1	1	187	183	142	16	94	
	contracts/DinoMarketplaceUpgradeable.sol	1	————	792	666	387	198	232	
	contracts/Dinoland.sol	1	————	63	63	48	2	55	
	contracts/TokenTimelock.sol	3	————	151	151	115	2	131	
	contracts/interface/IDinolandNFT.sol	————	1	7	5	3	1	5	————
  	Totals	8	2	1641	1451	947	305	654	

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	GameManager	Weak PRNG	122, 123, 124	<p>There are services to generate random numbers in Smart contracts like Chainlink VRF (For further information read the doc: https://docs.chain.link/docs/chainlink-vrf/)</p> <p>Do not use <code>`block.timestamp`</code>, <code>`now`</code> or <code>`blockhash`</code> as a source of randomness</p>

Low issues

Issue	File	Type	Line	Description
#1	DinosAccessControl	A floating pragma is set	4	The current pragma Solidity directive is „ <code>^0.8.0</code> ”.
#2	DinoMarketplaceUpgradeable	Missing Zero Address Validation (missing-zero-check)	159, 184, 178, 90	Check that the address is not zero
#3	GameManager	Missing Zero Address Validation (missing-zero-check)	17, 18, 82, 78	Check that the address is not zero

#4	DinoMarketplaceUpgradeable	Contract locking ether	-	Remove the payable attribute or add a withdraw function
#5	TokenTimelock	Missing Events Arithmetic	120	Emit an event for critical parameter changes
#6	DinoMarketplaceUpgradeable	Missing Events Access Control	159	Emit an event for critical parameter changes
#7	DinoLandNFTUpgradeable	Missing Events Access Control	68-75	<p>DinoLandNFTUpgradeable.initialize() (DinoLandNFTUpgradeable.sol:68-75) should emit an event for:</p> <ul style="list-style-type: none"> • <code>ceoAddress = msg.sender (DinoLandNFTUpgradeable.sol#70)</code> • <code>spawningManager = msg.sender (DinoLandNFTUpgradeable.sol#71)</code> <p>Emit an event for critical parameter changes</p>
#8	DinoAccessControl	Missing Events Access Control	70, 78, 85, 90	Emit an event for critical parameter changes
#9	DinoLandNFTUpgradeable	State variable visibility is not set	56, 59, 61, 63	It is best practice to set the visibility of state variables explicitly
#10	GameManager	State variable visibility is not set	34, 35, 36, 37, 38, 40, 41, 42, 43, 44	It is best practice to set the visibility of state variables explicitly
#11	DinoMarketplaceUpgradeable	Unchecked tokens transfer	775, 781, 345, 351, 327, 421	Use `SafeERC20`, or ensure that the transfer/transferFrom return value is checked

Informational issues

- no informational issues found -

Commented Code exist

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

File	Line	Comment
DinoMarket placeUpgr deable	574	// require(candidateContract.implementsERC721());
	619	// _addAuction())

Recommendation

Remove the commented code, or address them properly.

Audit Comments

14. February 2022:

Tokens we're locked on January, 20th. Unlock time is individual.

[https://bscscan.com/tx/](https://bscscan.com/tx/0x81a8e06e9d8f5a2eea512a75eb24868c4df2a8ad9335c044759645402335ea26)

[0x81a8e06e9d8f5a2eea512a75eb24868c4df2a8ad9335c044759645402335ea26](https://bscscan.com/tx/0x81a8e06e9d8f5a2eea512a75eb24868c4df2a8ad9335c044759645402335ea26)

1. Seeding Lock Contract:

[https://bscscan.com/address/](https://bscscan.com/address/0x95705d9de79ead88aa36d5ba86cdcd1bf8bfc2cf)

[0x95705d9de79ead88aa36d5ba86cdcd1bf8bfc2cf](https://bscscan.com/address/0x95705d9de79ead88aa36d5ba86cdcd1bf8bfc2cf)

2. Private Sale Lock Contract:

[https://bscscan.com/address/](https://bscscan.com/address/0xcefbe44ae3141a95fdeecc290ef8da946dd932f0)

[0xcefbe44ae3141a95fdeecc290ef8da946dd932f0](https://bscscan.com/address/0xcefbe44ae3141a95fdeecc290ef8da946dd932f0)

3. Game Incentive Lock Contract:

[https://bscscan.com/address/](https://bscscan.com/address/0xd2a0865d0f3bc9b8f76fb19997ed4efebdade547)

[0xd2a0865d0f3bc9b8f76fb19997ed4efebdade547](https://bscscan.com/address/0xd2a0865d0f3bc9b8f76fb19997ed4efebdade547)

4. Team Lock Contract

[https://bscscan.com/address/](https://bscscan.com/address/0xba03a11392c932c4bf3182265d9072f4acbe119c)

[0xba03a11392c932c4bf3182265d9072f4acbe119c](https://bscscan.com/address/0xba03a11392c932c4bf3182265d9072f4acbe119c)

5. Advisor Lock Contract

[https://bscscan.com/address/](https://bscscan.com/address/0x47eb6670285aab467d1fbbd3615f6198b8d36916)

[0x47eb6670285aab467d1fbbd3615f6198b8d36916](https://bscscan.com/address/0x47eb6670285aab467d1fbbd3615f6198b8d36916)

6. Reserve and Liquidity Lock Contract

[https://bscscan.com/address/](https://bscscan.com/address/0xf3c41f62eb25973c02aff9b3283ab92b416f8960)

[0xf3c41f62eb25973c02aff9b3283ab92b416f8960](https://bscscan.com/address/0xf3c41f62eb25973c02aff9b3283ab92b416f8960)

SWC Attacks

ID	Title	Relationships	Status
SW C-13 6	Unencrypted Private Data On-Chain	CWE-767: Access to Critical Private Variable via Public Method	PASSED
SW C-13 5	Code With No Effects	CWE-1164: Irrelevant Code	PASSED
SW C-13 4	Message call with hardcoded gas amount	CWE-655: Improper Initialization	PASSED
SW C-13 3	Hash Collisions With Multiple Variable Length Arguments	CWE-294: Authentication Bypass by Capture-replay	PASSED
SW C-13 2	Unexpected Ether balance	CWE-667: Improper Locking	PASSED
SW C-13 1	Presence of unused variables	CWE-1164: Irrelevant Code	PASSED
SW C-13 0	Right-To-Left-Override control character (U+202E)	CWE-451: User Interface (UI) Misrepresentation of Critical Information	PASSED
SW C-12 9	Typographical Error	CWE-480: Use of Incorrect Operator	PASSED
SW C-12 8	DoS With Block Gas Limit	CWE-400: Uncontrolled Resource Consumption	PASSED

SW C-12 7	Arbitrary Jump with Function Type Variable	CWE-695: Use of Low-Level Functionality	PASSED
SW C-12 5	Incorrect Inheritance Order	CWE-696: Incorrect Behavior Order	PASSED
SW C-12 4	Write to Arbitrary Storage Location	CWE-123: Write-what-where Condition	PASSED
SW C-12 3	Requirement Violation	CWE-573: Improper Following of Specification by Caller	PASSED
SW C-12 2	Lack of Proper Signature Verification	CWE-345: Insufficient Verification of Data Authenticity	PASSED
SW C-12 1	Missing Protection against Signature Replay Attacks	CWE-347: Improper Verification of Cryptographic Signature	PASSED
SW C-12 0	Weak Sources of Randomness from Chain Attributes	CWE-330: Use of Insufficiently Random Values	NOT 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-111	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-10 9	Uninitialized Storage Pointer	CWE-824: Access of Uninitialized Pointer	PASSED
SW C-10 8	State Variable Default Visibility	CWE-710: Improper Adherence to Coding Standards	NOT PASSED
SW C-10 7	Reentrancy	CWE-841: Improper Enforcement of Behavioral Workflow	PASSED
SW C-10 6	Unprotected SELFDESTRUCT Instruction	CWE-284: Improper Access Control	PASSED

SW C-10 5	Unprotected Ether Withdrawal	CWE-284: Improper Access Control	PASSED
SW C-10 4	Unchecked Call Return Value	CWE-252: Unchecked Return Value	PASSED
SW C-10 3	Floating Pragma	CWE-664: Improper Control of a Resource Through its Lifetime	NOT PASSED
SW C-10 2	Outdated Compiler Version	CWE-937: Using Components with Known Vulnerabilities	PASSED
SW C-10 1	Integer Overflow and Underflow	CWE-682: Incorrect Calculation	PASSED
SW C-10 0	Function Default Visibility	CWE-710: Improper Adherence to Coding Standards	PASSED

The logo features the words "SolidProof" in a white, handwritten-style script. The "P" is large and stylized, with a long horizontal stroke that extends to the left. The background is a solid blue color with a faint, large shield emblem. The shield has a grid-like pattern on its right side and a solid blue area on its left side.

SolidProof

Blockchain Security | Smart Contract Audits | KYC

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

MADE IN GERMANY