

Blockchain Security | Smart Contract Audits | KYC Development | Marketing



Company DAO

Audit

Security Assessment 19. May, 2023

For







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Version	Date	Description
1.0	21. March 2023	Layout projectAutomated-/Manual-Security TestingSummary
1.1	28. March 2023	· Reaudit
1.2	27. April 2023	· Added functionality audit
1.3	19. May 2023	· Added functionality re-audit

Network

Ethereum (ERC20)

Website

http://companydao.org

Reddit

https://www.reddit.com/user/company_dao/

LinkedIn

http://www.linkedin.com/in/taylorneff
https://www.linkedin.com/company/delta-alpha-omega-llc

Description

Company DAO is a web3 protocol which links legal entities in multiple jurisdictions to immutable /smart contracts/ on the blockchain. This allows real world companies and assets to be legally owned and managed by online communities through a /decentralised autonomous organisation/, whereby the smart contracts act as a single source of truth for decisions made by the company's stakeholders.

Project Engagement

During the 20th of March 2023, **CompanyDAO 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

- · GitHub
 - https://github.com/CompanyDAO/protocol-contracts
 - · Commit:
 - · dd3e683

v1.1

https://github.com/CompanyDAO/protocol-contracts/commit/ff1503ad3fce81c8e1ad8d09c50b8bb8a8f6af8f

v1.2

https://github.com/CompanyDAO/protocol-contracts/commit/5a5e02cc320630f55728d699d235b8e795clac80

v1.3

https://github.com/CompanyDAO/protocol-contracts/commit/8c40b3749647719233adac41949fb000c761566e

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	O – 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:

Dependency / Import Path	Count
@openzeppelin/contracts-upgradeable/access/AccessControlEnumerableUpgradeable.sol	3
@openzeppelin/contracts-upgradeable/access/IAccessControlEnumerableUpgradeable.sol	1
@openzeppelin/contracts-upgradeable/access/OwnableUpgradeable.sol	4
@openzeppelin/contracts-upgradeable/governance/utils/IVotesUpgradeable.sol	1
@openzeppelin/contracts-upgradeable/proxy/utils/Initializable.sol	9
@openzeppelin/contracts-upgradeable/proxy/utils/UUPSUpgradeable.sol	2
@openzeppelin/contracts-upgradeable/security/PausableUpgradeable.sol	2
@openzeppelin/contracts-upgradeable/security/ReentrancyGuardUpgradeable.sol	5
@openzeppelin/contracts-upgradeable/token/ERC20/IERC20Upgradeable.sol	4
@openzeppelin/contracts-upgradeable/token/ERC20/extensions/ERC20CappedUpgradeable.sol	1
@openzeppelin/contracts-upgradeable/token/ERC20/extensions/ERC20VotesUpgradeable.sol	1
@openzeppelin/contracts-upgradeable/token/ERC20/utils/SafeERC20Upgradeable.sol	4
@openzeppelin/contracts-upgradeable/utils/AddressUpgradeable.sol	3
@openzeppelin/contracts-upgradeable/utils/Create2Upgradeable.sol	1
@openzeppelin/contracts-upgradeable/utils/math/MathUpgradeable.sol	3
@openzeppelin/contracts-upgradeable/utils/structs/EnumerableSetUpgradeable.sol	2
@openzeppelin/contracts/proxy/beacon/BeaconProxy.sol	3

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.

v1.2

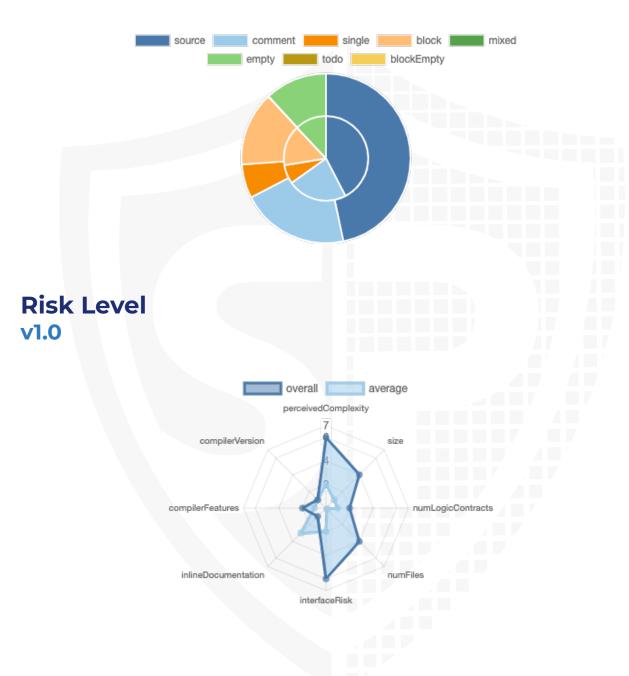
File Name	SHA-1 Hash
contracts/interfaces/IVesting.sol	8891d9ecb49896e11c6b29aec1 02e14fbae91beb
contracts/interfaces/IInvoice.sol	66e679ad6f61ae4fdba0bfc0503 691f4f55252dd
contracts/interfaces/	35fc9a89369bbb3bf21b31f489f6
ITokenFactory.sol	24384cae8348
contracts/interfaces/registry/	e1f168670c06cb13a12401e4ec3
ICompaniesRegistry.sol	30f67ca91722e
contracts/interfaces/registry/	4b5247f2c4cac77da0cee3cae4b
IRegistry.sol	c4ca7a43f5b8b
contracts/interfaces/registry/	e3850a5d6bab5409d2ac5056da
ITokensRegistry.sol	5e2da343404b73
contracts/interfaces/registry/	5dfdba1cc302553a07c5986d023
IRecordsRegistry.sol	2d2673834f4d9
contracts/interfaces/ITGE.sol	5faabd6888c3576d425cea0118e 108b4f6422625
contracts/interfaces/	3e25b2a13fc80a98244c652f17f8
ITGEFactory.sol	71aa7719a303
contracts/interfaces/IPool.sol	2cff7eae5a34de725f02ca89c3d5 9caccf1c6527
contracts/interfaces/IService.sol	8e9cf7722ba6438ab44f83bd782 2987d06d655cb

contracts/interfaces/IToken.sol	d47ed31f31c398584d8925bab7 1ad3c5740106b4
contracts/interfaces/governor/ IGovernorProposals.sol	fa666462a35e3d43c66498188ec fc2fd075c1269
contracts/interfaces/governor/ IGovernor.sol	00086917df60f3e4d98701c87d4 b9a435595e51b
contracts/interfaces/governor/ IGovernanceSettings.sol	92d3739c68933a0618f7742557 3b939b510f8dff
contracts/interfaces/ ICustomProposal.sol	4e4733b3c8d79c027b9ee6ddaa 481d26c470e645
contracts/TokenFactory.sol	489f0d3df85e08bf8321598641f2 1485c6c1fa40
contracts/TokenERC1155.sol	da39a3ee5e6b4b0d3255bfef956 01890afd80709
contracts/Invoice.sol	41981fdd38602caff2f0ee95740f1 acd80d9f270
contracts/registry/RegistryBase.sol	2a33c6b38aff397bf063f81662c8 c86b9eb4e604
contracts/registry/ CompaniesRegistry.sol	8beb2e879543cb49f6a93c103a3 5b0f7fd415111
contracts/registry/ TokensRegistry.sol	2f6319af971cd106843590d61f9c f93f0549ca3d
contracts/registry/ RecordsRegistry.sol	79be33ecb65ce697723fcc61821 8744a0c0f5e81
contracts/Vesting.sol	7605936664f25713434205e1a4 99bff670dfaca1
contracts/Registry.sol	fee7cbcda25460a62369afb3d3d 72ab10d543374
contracts/libraries/ ExceptionsLibrary.sol	38e97c0e17fa0cc2ad0e8e6d6ef 313171bbf7287

contracts/Service.sol	fa1f044eba9a09d218b33115d0b 03eb8c1166eb3
contracts/TGEFactory.sol	fcd16b1c2790a538a5bb33a814c 78bb96139ea73
contracts/Pool.sol	1fe8d034fff6e6815bdd6b587ea9 23d93b09b3c4
contracts/TGE.sol	bbd4d35920a11211600f471383e 3c3f9d7b4c8db
contracts/governor/ GovernanceSettings.sol	6f1a0095f0592e4b86ebe84dba1 228c28bc5028b
contracts/governor/Governor.sol	243e6ba42f2ffcc4546a4ae2eea9 f488df5e0d23
contracts/governor/ GovernorProposals.sol	b19c67266b8018de35b29f2663 6e01eb2ae97c3d
contracts/CustomProposal.sol	bb688979346cbbd472f0128f02f 3593675fc7255
contracts/Token.sol	437c5247fbb5e43deb1ad27f3e3 41bb0a44c55ac
contracts/Token.sol	

Metrics

Source Lines v1.0



Capabilities

Components

Version Contracts		Libraries	Interfaces	Abstract
1.2	10	1	16	7

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
	1.2	241	4

Version	External	Internal	Private	Pure	View
1.0	187	176	4	7	128

State Variables

Version	Total	Public
1.0	158	144

Capabilities

Version	Solidity Versions observed	Experim ental Features	Can Receive Funds	Uses Assembl Y	Has Destroya ble Contract s
1.0	0.8.17		yes		

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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1.0				yes		yes → NewC ontrac t:Beac onProx y
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Inheritance Graph v1.2



CallGraph v1.2



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. Are the contracts upgradeable
- 2. Overall checkup (Smart Contract Security)



Are the contracts upgradeable

Name Is contract an upgradeable? Yes

Comments:

v1.0

- Owner can deploy a new version of the contracts which can change any limit and give owner new privileges
 - Be aware of this and do your own research for the contract which is the contract pointing to

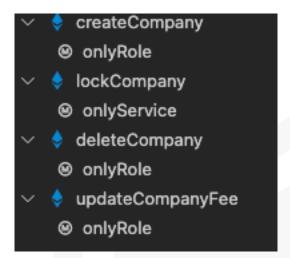


Legend

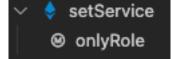
Attribute	Symbol
Verified / Checked	\checkmark
Partly Verified	P
Unverified / Not checked	X
Not available	-

Modifiers and public functions v1.3

Registry/CompaniesRegistry



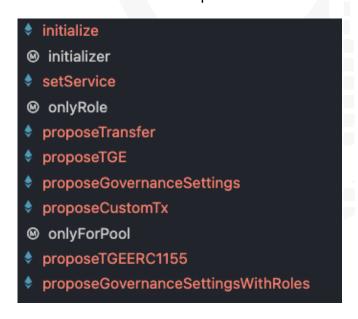
Registry/RegistryBase



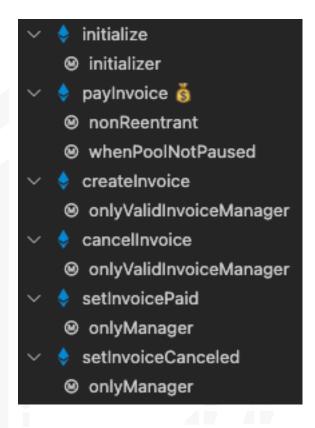
Registry/TokensRegistry



CustomProposal



Invoice



Pool initialize setNewOwnerWithSettings setSettings setCompanyInfo castVote whenNotPaused setToken setProposalIdToTGE executeProposal

whenNotPaused

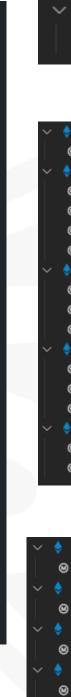
cancelProposal

transferByOwner

pause

unpause

propose



Registry initialize **TGE** initialize purchase 8 onlyWhitelistedUser whenPoolNotPaused redeem whenPoolNotPaused setLockupTVLReached whenPoolNotPaused ⊗ onlyManager transferFunds whenPoolNotPaused Token initialize nint 🕏 burn whenPoolNotPaused addTGE

setTGEVestedTokens setProtocolFeeReserved ⊗ onlyTGE

Service					
• initialize					
♥ InitializeW reinitializer					
purchasePool					
nonReentrant when Net Bassard					
whenNotPaused					
transferPurchasedPoolByService					
onlyManager					
⊚ nonReentrant					
whenNotPaused					
addProposal					
⊗ onlyPool					
whenNotPaused					
♦ addEvent					
⊗ onlyPool					
whenNotPaused					
• createPool					
⊗ onlyRegistry					
whenNotPaused					
transferCollectedFees					
⊗ onlyRole					
• setFactories					
⊗ onlyRole					
setProtocolCollectedFee					
setProtocolTreasury					
setProtocolTokenFee					
setRegistry					
setCustomProposal					
onlyRole					
setVesting					
onlyRole					
setInvoice					
onlyRole					
setPoolBeacon					
onlyRole					
setTokenBeacon					
setTokenERC1155Beacon					
⊗ onlyRole					
setTGEBeacon					
⊗ onlyRole					
scancelProposal					
⊚ onlyRole					
• pause					
⊚ onlyRole					

unpause

TokenFactory

✓ ♦ initialize
 ❷ initializer
 ✓ ♦ createToken
 ❷ onlyTGEFactory

Vesting

✓ Initialize
 Ø initializer
 ✓ vest
 Ø onlyTGE
 ✓ setClaimTVLReached
 Ø onlyManager
 ✓ cancel
 Ø onlyResolverOrTGE
 Initialize

TGEFactory

- 🗣 initialize
- createPrimaryTGE
- whenNotPaused
- createSecondaryTGE

- createSecondaryTGEERC1155

TokenERC1155

- initialize
- mint
- **™** onlyTGEOrVesting
- burn
- whenPoolNotPaused
- addTGE
- setTGEVestedTokens
- **⊚** onlyTGEOrVesting
- setTokenIdCap
- setProtocolFeeReserved
- setURI

Note: Imported contracts from official packages were not listed down below

Comments

- CompaniesRegistry
 - · Companies manager role is able to
 - Delete company
 - Update company fee to any arbitrary value including 100% or more
 - Lock company
 - Create company
- RecordsRegistry
 - Only service or factory is able to
 - Add contract record
 - Add event record
 - Only service is able to
 - Add proposal
- RegistryBase
 - · Only default admin is able to
 - change service address
- TokenRegistry
 - Only default admin is able to
 - Grant whitelist role to token
- CustomProposal
 - Initializer will be the default admin
 - Only default admin is able to
 - change service address
 - · Only 'Pool' role address can propose a custom transactions
- Invoice
 - Only manager is able to
 - set invoice status
 - cancel
 - paid
 - · Only valid invoice manager is able to
 - set invoice status
 - cancel
 - paid
 - Create invoice
 - PayInvoice function can be locked by pausing pool
 - · While calling the initialize the registry can be set
- Pool
 - Only owner is able to
 - · Transfers funds from treasury if the pool is not dao
 - Only pool is able to
 - Change pool executor

- Change pool secretary
- Only propose is able to
 - · Create a proposal
- Only service admin is able to
 - Pause/unpause contract
- Only Service is able to
 - Set New Owner with settings
 - Cancel Proposal
- Only executor is able to
 - Execute proposal
- Only TGEFactory is able to
 - Add a new entry about the deployed token contract to the list of tokens related to the pool
 - Set proposal ID
- While initializing the service and the company info will be set
- Registry
 - · While initializing the caller will be the default admin
- Service
 - Only default admin is able to
 - Pause/unpause
 - Cancel proposal
 - Update
 - tge beacon
 - Token beacon
 - Pool Beacon
 - Token and TGE factory address
 - ERC1155 Token beacon address
 - Invoice
 - Vesting
 - Custom proposal
 - Registry
 - Protol token fee
 - Protocol treasury address
 - Protocol collected fee address
 - Transfer collected fees to an arbitrary address
 - Only registry is able to
 - · Create a pool
 - Only pool is able to
 - Add new event to directory
 - Add new proposal record
 - · Only Manager Role address is able to create a new pool
- TGE
 - Only manager is able to
 - lockup tvl reached

- Only whitelisted user is able to
 - · Purchase pool tokens
- TGEFactory
 - Only pool is able to
 - Create secondary TGE
 - Create primary TGE
 - Create secondary TGE ERC1155
- Token
 - Only TGE is able to
 - · Set total protocol fee reserved without any limitations
 - Only TGE or vesting is able to
 - Total vested amount without any limitations
 - Mint new tokens
 - Burn tokens from any address
 - Only TGE Factory is able tot
 - Add tge addresses
- TokenFactory
 - Only TGE Factory is able to
 - · Create new token contract
- Vesting
 - Only TGE is able to
 - Vest token to an arbitrary address
 - Only Manager is able to
 - · Claim tvl reached for TGE
 - Only Resolver or tge is able to
 - Cancel vesting
- TokenERC1155
 - Only TGE or Vesting contract addresses are able to
 - Mint tokens
 - Burn tokens from any address
 - · Set any arbitrary amount of tokens to total vested tokens
 - Only TGE factory contract addresses are able to
 - Add TGE address
 - · Set token ID cap to any arbitrary value
 - Only TGE contract addresses are able to
 - Set URI
 - Set the amount of reserved tokens for minting protocol fee to any arbitrary value
- There are several authorities which are authorized to call some functions, that means, if the owner is renounced, another address is still authorized to call functions
 - · Be aware of this

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

Source Units in Scope

v1.2

File	Logic Contracts	Interfaces	Lines	nLines	nSLOC	Comment Lines	Complex. Score
contracts/interfaces/IVesting.sol		1	36	17	13	1	13
contracts/interfaces/IInvoice.sol		1	28	28	24	1	1
contracts/interfaces/ITokenFactory.sol		1	13	8	4	1	3
contracts/interfaces/registry/ICompaniesRegistry.sol		1	21	17	12	1	3
contracts/interfaces/registry/IRegistry.sol		1	12	11	7	1	9
contracts/interfaces/registry/ITokensRegistry.sol		1	7	6	3	1	3
contracts/interfaces/registry/IRecordsRegistry.sol		1	82	62	33	22	9
contracts/interfaces/ITGE.sol		1	52	30	23	1	19
contracts/interfaces/ITGEFactory.sol		1	15	9	5	1	3
contracts/interfaces/IPool.sol		1	78	12	8	1	43
contracts/interfaces/IService.sol		1	84	17	13	1	51
contracts/interfaces/IToken.sol		1	67	25	19	1	43
contracts/interfaces/governor/IGovernorProposals.sol		1	9	8	4	1	3
contracts/interfaces/governor/IGovernor.sol		1	42	38	17	16	3
contracts/interfaces/governor/IGovernanceSettings.sol		1	28	25	12	10	3
contracts/interfaces/ICustomProposal.sol		1	5	5	2	1	1
contracts/TokenFactory.sol	1		66	62	33	17	37
contracts/TokenERC1155.sol			1	1			
contracts/Invoice.sol	1		297	268	147	73	97
contracts/registry/RegistryBase.sol	1		45	43	25	6	17
contracts/registry/CompaniesRegistry.sol	1		246	218	90	91	58
contracts/registry/TokensRegistry.sol	1		36	34	16	10	20
contracts/registry/RecordsRegistry.sol	1		195	169	77	74	39
contracts/Vesting.sol	1		278	262	127	92	81
contracts/Registry.sol	1		56	49	19	21	15
contracts/libraries/ExceptionsLibrary.sol	1		74	74	71	1	66
contracts/Service.sol	1		733	662	311	251	264
contracts/TGEFactory.sol	1		375	338	211	84	142
contracts/Pool.sol	1		574	508	289	145	250
contracts/TGE.sol	1		553	523	289	149	193
contracts/governor/GovernanceSettings.sol	1		124	117	58	34	21
contracts/governor/Governor.sol	1		484	408	239	143	58
contracts/governor/GovernorProposals.sol	1		47	47	31	9	12
contracts/CustomProposal.sol	1		615	555	374	117	386
contracts/Token.sol	1		397	359	176	127	132
Totals	18	16	5775	5015	2782	1505	2098

Legend

Attribute	Description
Lines	total lines of the source unit
nLines	normalised lines of the source unit (e.g. normalises functions spanning multiple lines)
nSLOC	normalised source lines of code (only source-code lines; no comments, no blank lines)
Comment Lines	lines containing single or block comments

	a custom complexity score derived from code statements that
Complexity Score	are known to introduce code complexity (branches, loops, calls,
	external interfaces,)



Audit Results

Critical issues

No critical issues

High issues

No high issues

Medium issues

Issue	File	Type	Line	Description
#1	Service. sol	Owner can set fees up to 100%	443	The address with the "DEFAULT_ADMIN_ROLE" can set the fees up to a 100% which is not recommended. Because it may result in loss of user funds.

Low issues

Issue	File	Type	Line	Description
#1	Custom Proposa I.sol	Missing Zero Address Validation (missing- zero-check)	76	Check that the address is not zero
#2	Vesting. sol	Missing Zero Address Validation (missing- zero-check)	131, 142	Check that the address is not zero
#3	Token.s ol	Missing Events Arithmetic	All	Emit an event for critical parameter changes
#4	TokenE RC1155.s ol	Missing Events Arithmetic	All	Emit an event for critical parameter changes

Informational issues

No informational issues

Alleviation

The medium bug has been acknowledged by the CompanyDAO team as part of the intended behaviour for their project.

Audit Comments

We recommend you to use the special form of comments (NatSpec Format, Follow link for more information https://docs.soliditylang.org/en/latest/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.

19. May 2023:

- There is still an owner (Owner still has not renounced ownership)
- Owner can deploy a new version of the contract which can change any limit and give owner new privileges
- The pool contract can receive ETH, and the owner can withdraw it before the DAO has started.
- · Read whole report and modifiers section 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	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	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
SW C-1 25	Incorrect Inheritance Order	CWE-696: Incorrect Behavior Order	PASSED
<u>SW</u> <u>C-1</u> <u>24</u>	Write to Arbitrary Storage Location	CWE-123: Write-what-where Condition	PASSED
<u>SW</u> <u>C-1</u> <u>23</u>	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
SW C-1 20	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	PASSED
<u>SW</u> <u>C-11</u> <u>8</u>	Incorrect Constructor Name	CWE-665: Improper Initialization	PASSED
<u>SW</u> C-11 7	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	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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