

Blockchain Security | Smart Contract Audits | KYC



Earnville

Audit

Security Assessment 20. May, 2022

For



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

Network

Binance Smart Chain (BEP20)

Website

https://earnville.org/

Telegram

https://t.me/Earn_Ville

Twitter

https://twitter.com/Earn_Ville

Medium

https://medium.com/@EarnVille

Discord

https://discord.gg/AuM525RX

Youtube

https://www.youtube.com/

Description

EarnVille is undertaking the Sphere auto staking and compounding protocol because we stand on the path of revolution and innovation in the Titano fork ecosystem.

Project Engagement

During the 19th of May 2022, **Earnville 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/ 0x608140e0b058C94F723D9fE3E0A7E08Aa3d31e3b#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:

IERC20.sol

IPancakeSwapFactory.sol

IPancakeSwapPair.sol

IPancakeSwapRouter.sol

SafeMath.sol

SafeMathInt.sol

ERC20Detailed.sol

Ownable.sol

Tested Contract Files

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

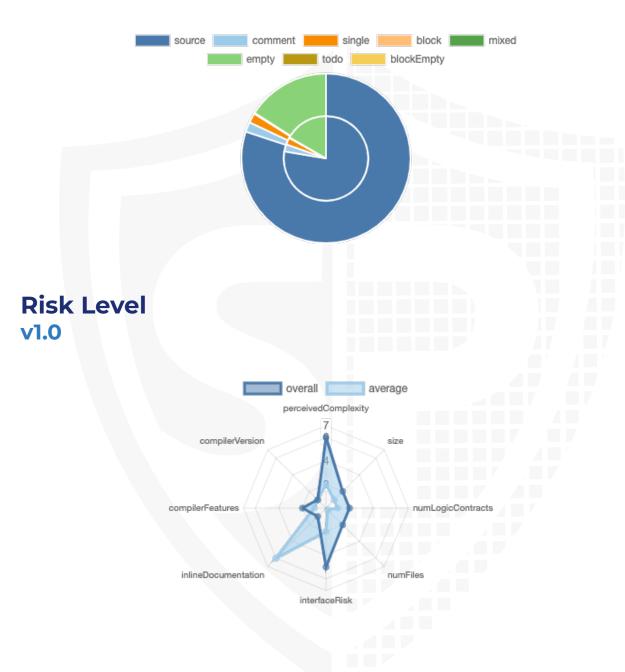
A file with a different Hash has been modified, intentionally or otherwise, after the security review. A different Hash could be (but not necessarily) an indication of a changed condition or potential vulnerability that was not within the scope of this review.

v1.0

File Name	SHA-1 Hash
contracts/ERC20Detailed.sol	c3962f975ea0b92e5583e1d75e42ba4db0f739d3
contracts/library/SafeMathInt.sol	bbf3abb748711b4ec7c4bb661f2941824b4ca159
contracts/library/SafeMath.sol	c1b2c2d196a78ed9f1fdc44128b0a08a171fe8de
contracts/Ownable.sol	dc1be9413fab5f479519102e5bd7840e4bef190a
contracts/earnville.sol	568dab945c6418d666cdf864a8dec70e68ff1f2c
contracts/interface/IPancakeSwapPair.sol	d4e996ad28754c974dec019a54c8bc83d50ca92e
contracts/interface/IPancakeSwapRouter.sol	270c1e2f76f578cc640745f8709a36b6bf44b57f
contracts/interface/IPancakeSwapFactory.sol	aa2ae48f6fb131ea81069132c13ed7dba47d8f2e
contracts/interface/IERC20.sol	66a1dc40d211b4dfdb4214d75cb1faec5e080ae8

Metrics

Source Lines v1.0



Capabilities

Components

Version	Contracts	Libraries	Interfaces	Abstract
1.0	2	2	4	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.

Ve	rsion	Public	Payable
1.0		113	5

Version	ersion External		al Internal Private Pure		View
1.0	101	91	0	22	50

State Variables

Version	Total	Public
1.0	76	39

Capabilities

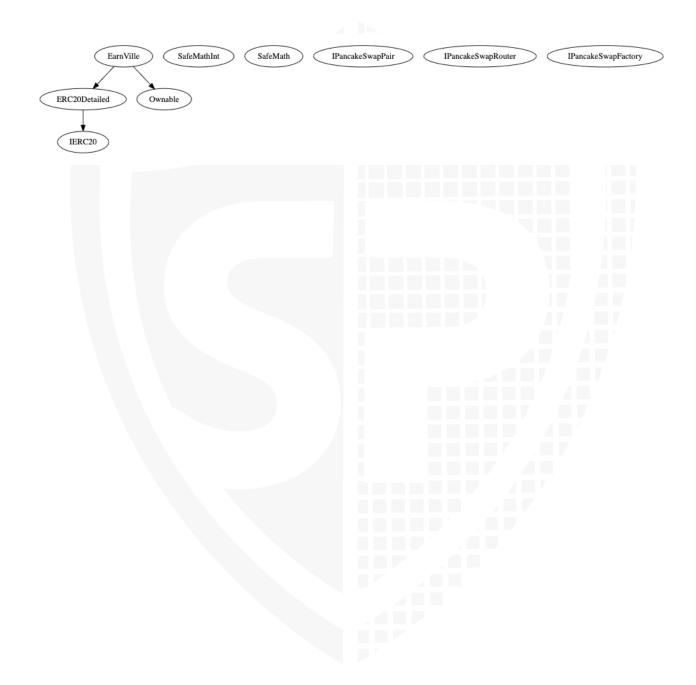
Version	Solidity Versions observed	Experim ental Features	Can Receive Funds	Uses Assembl Y	Has Destroya ble Contract s
1.0	0.7.4		yes	yes (1 asm blocks)	

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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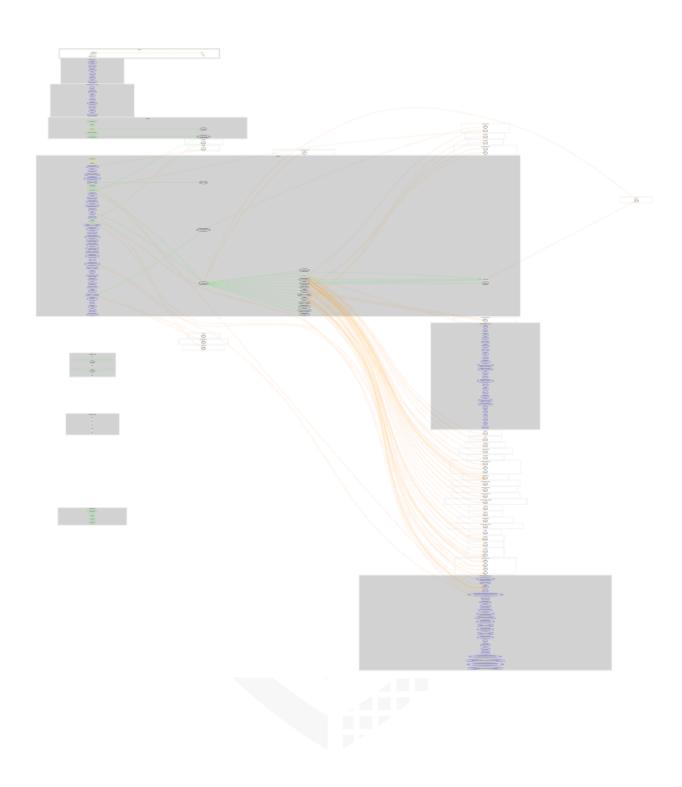
1.0 yes	
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Inheritance Graph

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	√	√	\checkmark				
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. withdrawAllToTreasury

1. approve 2. decreaseAllowance 3. increaseAllowance 4. manualSync 5. renounceOwnership 6. setAutoAddLiquidity 7. setAutoRebase 8. setBotBlacklist 10. setBuyFees 11. setJeckpotCashout 13. setJackpotHardBuyback 14. setJackpotHardBuyback 14. setJackpotHinBuy 16. setJackpotMinBuy 16. setJackpotMinBuy 17. setLP 18. setPairAddress 19. setWhitelist 20. startRebase 21. transfer 21. transfer		
3. IncreaseAllowance 4. manualSync 5. renounceOwnership 6. setAutoAddLiquidity 7. setAutoRebase 8. setBotBlacklist 9. setBuyBackWallet 10. setBuyFees 11. setFeeReceivers 12. setJackpotCashout 13. setJackpotHardLimit 14. setJackpotHardLimit 15. setJackpotTmespan 17. setLP 18. setPairAddress 19. setWhitelist 20. startRebase 21. transfer	. approve	
renounceOwnership setAutoRebase setButBlacklist setButBlacklist .setBuyBackWallet 0. setBuyFees 1. setFeeReceivers 2. setJackpotCashout 3. setJackpotHardBuyback 4. setJackpotHinBuy 6. setJackpotMinBuy 6. setJackpotMinBuy 7. setLP 8. setPairAddress 9. setWhitelist 0. startRebase 1. transfer 2. transferFrom	decreaseAllowance	
renounceOwnership setAutoAddLiquidity setBuyBackWallet setBuyBackWallet setBuyBackWallet setBuyFees . setJackpotCashout setJackpotHardBuyback setJackpotHardBuyback setJackpotHinBuy setJackpotMinBuy setJackpotMinBuy setJackpotMinBuy setJackpotMinBuy setJackpotMinBuy testJackpotMinBuy setJackpotMinBuy setJackpotMinBuy	increaseAllowance	
setAutoRebase setBotBlacklist setBuyBackWallet 0. setBuyFees 1. setFeeReceivers 2. setJackpotCashout 3. setJackpotHardBuyback 4. setJackpotMinBuy 5. setJackpotMinBuy 6. setJackpotTimespan 7. setLP 8. setPairAddress 9. setWhitelist 0. startRebase 1. transfer 2. transferFrom	. manualSync	
setButBlacklist setBuyBackWallet 0. setBuyFees 1. setFeeReceivers 2. setJackpotCashout 3. setJackpotHardBuyback 4. setJackpotHardLimit 5. setJackpotMinBuy 6. setJackpotTimespan 7. setLP 8. setPairAddress 9. setWhitelist 0. startRebase 1. transfer 2. transferFrom	renounceOwnership	
setBuyBackWallet D. setBuyFees 1. setFeeReceivers 2. setJackpotCashout 3. setJackpotHardBuyback 4. setJackpotHardLimit 5. setJackpotMinBuy 6. setJackpotTimespan 7. setLP 8. setPairAddress 9. setWhitelist D. startRebase 1. transferFrom	setAutoAddLiquidity	
setBuyBackWallet 0. setBuyFees 1. setFeeReceivers 2. setJackpotCashout 3. setJackpotHardBuyback 4. setJackpotHardLimit 5. setJackpotMinBuy 6. setJackpotTimespan 7. setLP 8. setPairAddress 9. setWhitelist 0. startRebase 1. transfer 2. transferFrom	. setAutoRebase	
. setBuyFees 1. setFeeReceivers 2. setJackpotCashout 3. setJackpotHardBuyback 4. setJackpotHardLimit 5. setJackpotMinBuy 6. setJackpotTimespan 7. setLP 8. setPairAddress 9. setWhitelist 0. startRebase 1. transfer 2. transferFrom	. setBotBlacklist	
0. setBuyFees 1. setFeeReceivers 2. setJackpotCashout 3. setJackpotHardBuyback 4. setJackpotHardLimit 5. setJackpotMinBuy 6. setJackpotTimespan 7. setLP 8. setPairAddress 9. setWhitelist 0. startRebase 11. transfer 22. transferFrom	. setBuyBackWallet	
1. setFeeReceivers 2. setJackpotCashout 3. setJackpotHardBuyback 4. setJackpotHardLimit 5. setJackpotMinBuy 6. setJackpotTimespan 7. setLP 8. setPairAddress 9. setWhitelist 10. startRebase 11. transfer 12. transferFrom	0. setBuyFees	
2. setJackpotCashout 3. setJackpotHardBuyback 4. setJackpotHardLimit 5. setJackpotMinBuy 6. setJackpotTimespan 7. setLP 8. setPairAddress 9. setWhitelist 0. startRebase 1. transfer	1. setFeeReceivers	
3. setJackpotHardBuyback 4. setJackpotHardLimit 5. setJackpotMinBuy 6. setJackpotTimespan 7. setLP 8. setPairAddress 9. setWhitelist 0. startRebase 1. transfer 2. transferFrom	2. setJackpotCashout	
4. setJackpotHardLimit 5. setJackpotMinBuy 6. setJackpotTimespan 7. setLP 8. setPairAddress 9. setWhitelist 0. startRebase 1. transfer 2. transferFrom	3. setJackpotHardBuyback	
5. setJackpotMinBuy 6. setJackpotTimespan 7. setLP 8. setPairAddress 9. setWhitelist 0. startRebase 1. transfer 2. transferFrom	4. setJackpotHardLimit	
6. setJackpotTimespan 7. setLP 8. setPairAddress 9. setWhitelist 0. startRebase 1. transfer 2. transferFrom	5. setJackpotMinBuy	
7. setLP 8. setPairAddress 9. setWhitelist 0. startRebase 1. transfer 2. transferFrom	6. setJackpotTimespan	
8. setPairAddress 9. setWhitelist 0. startRebase 1. transfer 2. transferFrom	7. setLP	
9. setWhitelist 0. startRebase 1. transfer 2. transferFrom		
20. startRebase 21. transfer 22. transferFrom		
1. transfer 2. transferFrom		
2. transferFrom		
	2. transferFrom 3. transferOwnership	

Deployer cannot mint any new tokens

Name	Exist	Tested	Status
Deployer cannot mint	-	_	-
Max / Total Supply		7	000000



Deployer cannot burn or lock user funds

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

Comments:

v1.0

- Owner can lock user funds by
 - blacklisting contract addresses

Deployer cannot pause the contract

Name	Exist	Tested	Status
Deployer cannot pause	-	_	-



Overall checkup (Smart Contract Security)

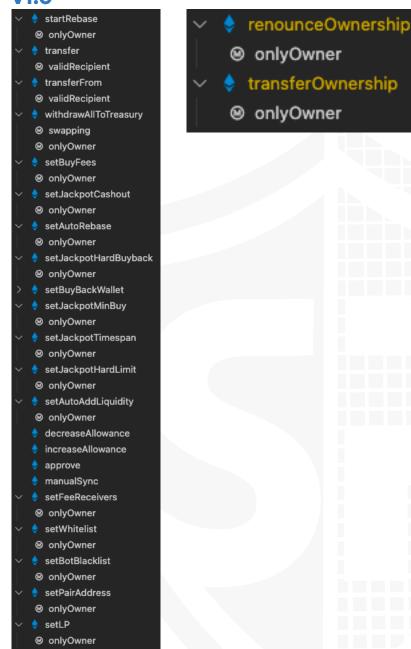


Legend

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
 - jackpotHardLimit
 - jackpotTimespan
 - jackpotMinBuy
 - jackpotHardBuyback
 - jackpotCashout
 - liquidityFee
 - earnVilleInsuranceFundFee
 - treasuryFee
 - jackpotFee

- Deployer can enable/disable following state variables
 - blacklist
 - _isFeeExempt
 - _autoAddLiquidity
 - · _autoRebase
- Deployer can set following addresses
 - pairContract
 - pairAddress
 - · autoLiquidityReceiver
 - treasuryReceiver
 - earnVilleInsuranceFundReceiver
 - buybackWallet
- Existing Modifiers
 - validRecipient
 - swapping
 - onlyOwner

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/ERC20Detailed.sol	1		31	31	25	1	12	
\equiv 	contracts/library/SafeMathInt.sol	1		38	38	29	1	14	
\equiv 	contracts/library/SafeMath.sol	1		57	49	36	1	9	
2	contracts/Ownable.sol	1		45	45	34	1	20	
9	contracts/earnville.sol	1		857	766	624	19	488	
Q	contracts/interface/IPancakeSwapPair.sol		1	111	12	9	1	55	
Q	contracts/interface/IPancakeSwapRouter.sol		1	206	5	3	1	61	. <u>Š</u>
Q	contracts/interface/IPancakeSwapFactory.sol		1	32	12	9	1	17	
Q	contracts/interface/IERC20.sol		1	31	5	3	1	13	*
≥	Totals	5	4	1408	963	772	27	689	<u></u>

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	Earnvill e	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	Earnvill e	Missing Zero Address Validation (missing- zero-check)	716, 808, 810, 809, 832	Check that the address is not zero
#3	Earnvill e	State variable visibility is not set	26, 57-59, 73	It is best practice to set the visibility of state variables explicitly
#4	Earnvill e	Local variables shadowing	21-23	Rename the local variables that shadow another component

#5	Earnvill e	Missing Events Arithmetic	691 692 693 694 695 696 700 713 721 725	Emit an event for critical parameter changes
			725	

Informational issues

Issue	File	Type	Line	Description
#1	Earnvill e	State variables that could be declared constant (constable-states)	97	Add the `constant` attributes to state variables that never change
#2	SafeMat hInt	Unused state variables	6	Remove unused state variables
#3	Earnvill e	Misspelling	See description	Change following words: - exteranlly L827 Make sure to change it everywhere else as well.
#4	Earnvill e	Error message is missing	29	Provide an error message for require statement
#5	Ownabl e	Error message is missing	23, 41	Provide an error message for require statement
#6	SafeMat hInt	Error message is missing	All require statements	Provide an error message for require statement

Commented Code exist

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

File	Line	Comment
Earnville	140	// router = IPancakeSwapRouter(0x9Ac64Cc6e4415144C455BD8E4837Fea 55603e5c3); // testnet

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.

20. May 2022:

· 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	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> <u>C-1</u> <u>24</u>	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> 1	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
<u>SW</u> <u>C-1</u> <u>09</u>	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	NOT PASSED
<u>SW</u> <u>C-1</u> <u>07</u>	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

SW C-1 05	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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