

Blockchain Security | Smart Contract Audits | KYC

MADE IN GERMANY

StellaSwap

Stable AMM

Audit

Security Assessment 20. April, 2022

For



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Version	Date	Description
1.0	19. April 2022	Layout projectAutomated-/Manual-Security TestingSummary
	20. Audit 2022	Check layout of source codeFinishing report

Network

Moonbeam (Polkadot)

Website

https://stellaswap.com/

Telegram

https://t.me/stellaswap

Twitter

https://twitter.com/StellaSwap

Github

https://github.com/stellaswap

Reddit

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

Medium

https://stellaswap.medium.com/

Description

All your DeFi needs in one place. Swap, earn and build on Moonbeam's leading DEX

Project Engagement

During the 18th of April 2022, **StellaSwap 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

- Github
 - https://github.com/stellaswap/stable-amm/
 - Commit: 9bd2d5deece603d50el39la7cd4l7lefa2d2d43f

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.

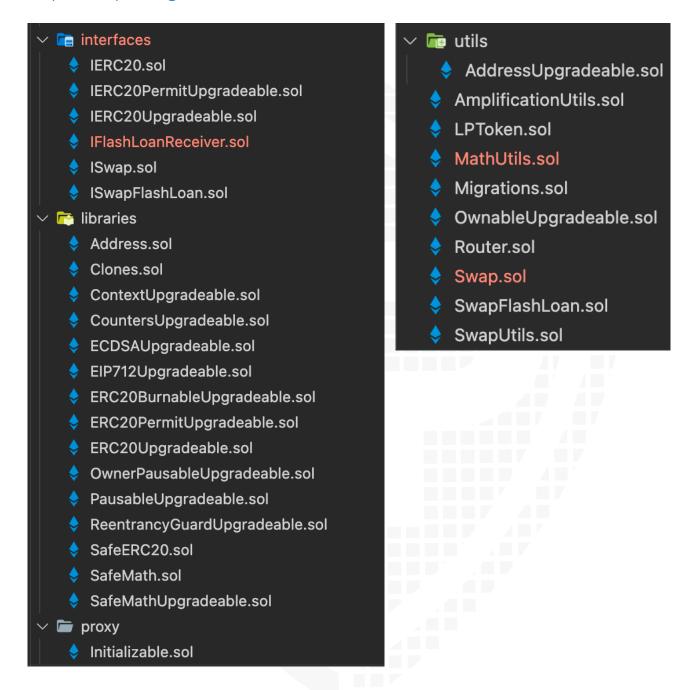
Methodology

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.

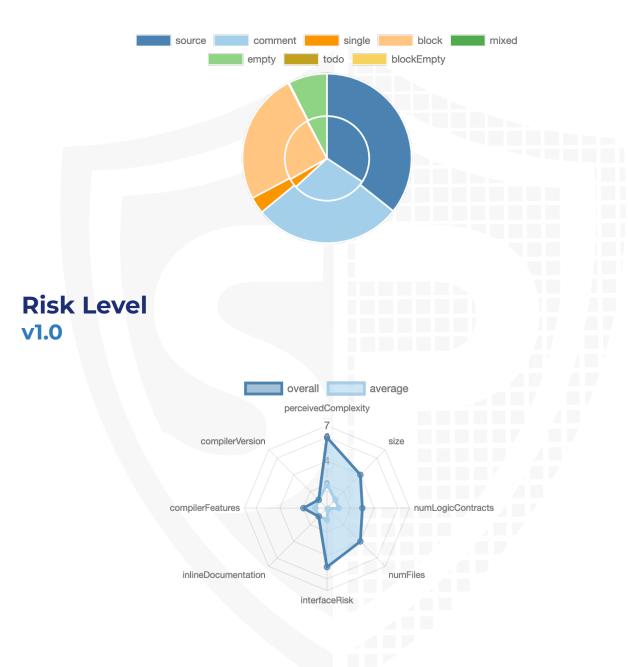
A file with a different Hash has been modified, intentionally or otherwise, after the security review. A different Hash could be (but not necessarily) an indication of a changed condition or potential vulnerability that was not within the scope of this review.

v1.0

File Name	SHA-1 Hash
contracts/SwapUtils.sol	c3cfed5e082d250cc6fa16911050c5200960933c
contracts/interfaces/IERC20Upgradeable.sol	b310903de7a32c0cd3631971a9113188ac411347
contracts/interfaces/IERC20PermitUpgradeable.sol	cc21709cb288cc8bb1c80c680bc3c11760fb1e15
contracts/interfaces/ISwapFlashLoan.sol	1c27e6a929372be200a3acf4639d5c7fd2ff819b
contracts/interfaces/ISwap.sol	ccc0080c08d4cded28f12f16d9246f5bb8b86715
contracts/interfaces/IERC20.sol	2d6eb8a102a8a92dcfef4d19c977a062e891c7cf
contracts/interfaces/IFlashLoanReceiver.sol	bb153792ac1068f3d6897adafc3356156741dff5
contracts/helpers/GenericERC20.sol	77cbe7441448d8e8fca3f59e66396e71d002faf8
contracts/helpers/FlashLoanBorrowerExample.sol	a3cb61710f0cc97ffb5c05986cc6a03b97b2d982
contracts/Swap.sol	eef3bccda300188ce74bcf39da99ff2fb35e1784
contracts/Router.sol	3a35eba91a0c60a89cb97746c98e7e18688518a6
contracts/LPToken.sol	73b9a6294622f963788e10e6e445d3fcb7f9e089
contracts/utils/AddressUpgradeable.sol	522674d9d63da6c735286f3a85f9bbd4d8c8af02
contracts/libraries/ECDSAUpgradeable.sol	2209ef889686657878c1b694971f7f30e4ef3050
contracts/libraries/CountersUpgradeable.sol	f3e7cee73ddb9ff685c70832e271b823e62b7f60
contracts/libraries/SafeMathUpgradeable.sol	c3fcf02887779f0de3ab4c368a5bd8c6196b1926
contracts/libraries/ERC20PermitUpgradeable.sol	698875230444a1d6f5755c6bae5dc9a6af1d5817
contracts/libraries/ERC20BurnableUpgradeable.sol	340a37f7e751cb73639652a5e0f01deca66357e5
contracts/libraries/ReentrancyGuardUpgradeable.sol	4294648e9b18b56b640790229feedbf9c9817464
contracts/libraries/ContextUpgradeable.sol	7c8676f62f5224a79b5f8d9cc0639a6914c27c42
contracts/libraries/PausableUpgradeable.sol	bf27015d9bc6025dd9117e056d121a927cc97355
contracts/libraries/Address.sol	1aea000b5e51774d55f9dbeb58553f5d25caeb0b
contracts/libraries/EIP712Upgradeable.sol	9d010c203bc15504e902e7cc99937c2e74c94d93
contracts/libraries/OwnerPausableUpgradeable.sol	2de27f6db029b91bc968f11c805436be9123dc38
contracts/libraries/SafeMath.sol	252b3caeb72fa4bde1cf723d04677a593bd82d36
contracts/libraries/Clones.sol	2b50bb3d43f7111b4ec12fc68120f65c497795bf
contracts/libraries/SafeERC20.sol	2e2dfbf4f2ac98115ef92774ad58b6bcccc80d19
contracts/libraries/ERC20Upgradeable.sol	92455b72bde577f3dcd8870538fcb57ece55085e
contracts/OwnableUpgradeable.sol	cf71edffb7ed1d323f1969cb1edf00b76cb496ea
contracts/MathUtils.sol	f644331c463b88117e279d2e6c64caaae25275db
contracts/proxy/Initializable.sol	b4ea9be81cf5755124ca4c530b62d35721708bdd
contracts/AmplificationUtils.sol	91bc6dcbacfe34f931cd4e02d9ec1265d499ab9f
contracts/SwapFlashLoan.sol	f7171b20368ae37ce4d3b4cfbbe51a86ec9acb0d

Metrics

Source Lines v1.0



Capabilities

Components

Version	Contracts	Libraries	Interfaces	Abstract
1.0	7	11	6	9

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	123	0

Version	External	Internal	nternal Private Pu		View
1.0	98	218	6	40	83

State Variables

Version	Total	Public
1.0	40	9

Capabilities

Version	Solidity Versions observed	Experim ental Features	Can Receive Funds	Uses Assembl Y	Has Destroya ble Contract
1.0	0.6.12 >=0.6. 0 <0.8.0 0.8.4 >=0.6. 2 <0.8.0 >=0.6. 5 <0.8.0 >=0.4. 24 <0.8.0			yes (9 asm blocks)	

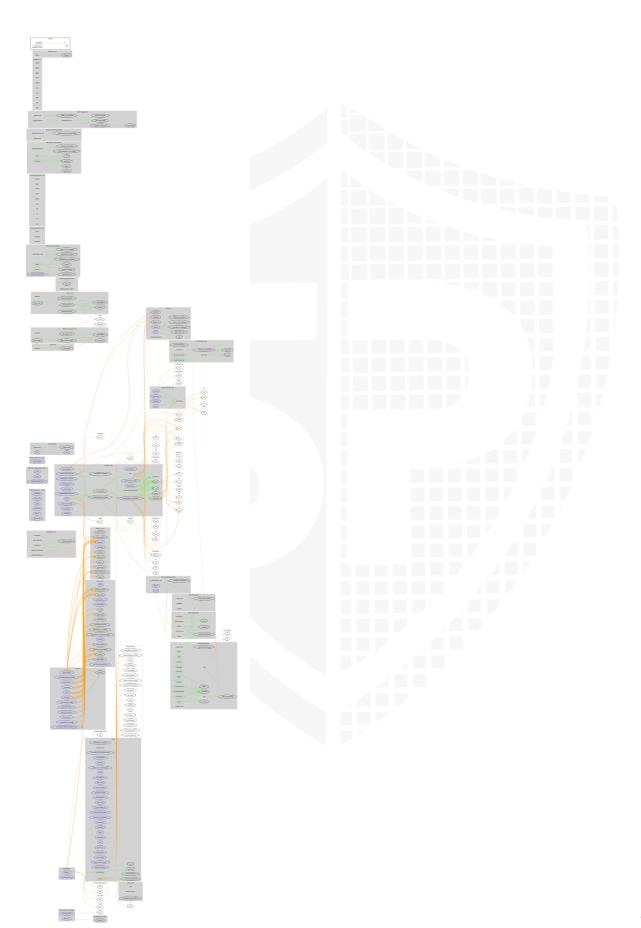
Version	Transfer s ETH	Low- Level Calls	Deleg ateCa II	Uses Hash Function s	EC Rec ove r	New/ Create/ Create2	
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1.0	yes		yes	yes	yes	yes → Asse mblyCa ll:Nam e:crea te → Asse mblyCa ll:Nam e:crea te:crea
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Inheritance 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. Overall checkup (Smart Contract Security)



Write functions of contract v1.0

Swap/SwapFlashLoan

initialize flashLoan setFlashLoanFees initialize swap addLiquidity removeLiquidity removeLiquidityOneToken removeLiquidityImbalance withdrawAdminFees setAdminFee setSwapFee rampA stopRampA pause unpause renounceOwnership transferOwnership

Router

convert
addLiquidity
removeLiquidity
removeBaseLiquidityOneToken
swapFromBase
swapToBase

LPToken

initialize
mint
burn
burnFrom
transfer
approve
transferFrom
increaseAllowance
decreaseAllowance
permit

Deployer cannot mint any new tokens

Name	Exist	Tested	Status
Deployer cannot mint	\checkmark	√	X

Comments:

v1.0

- LPToken
 - · Owner can mint new tokens
- GenericERC20
 - · Owner can mint new tokens

Deployer cannot burn or lock user funds

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

Comments:

v1.0

- LPToken
 - · Everybody can burn own tokens

Deployer cannot pause the contract

Name	Exist	Tested	Status
Deployer cannot pause	\checkmark	√	X



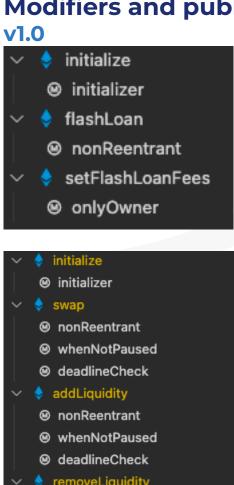
Overall checkup (Smart Contract Security)



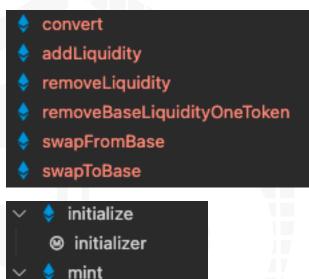
Legend

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

Modifiers and public functions









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/SwapUtils.sol	1		1063	965	585	265	483	
Q	contracts/interfaces/IERC20Upgradeable.sol		1	77	26	17	57	13	*
Q	contracts/interfaces/IERC20PermitUpgradeable.sol		1	51	43	10	41	7	*
Q	contracts/interfaces/ISwapFlashLoan.sol		1	14	8	4	1	5	
Q	contracts/interfaces/ISwap.sol		1	89	9	4	4	35	
Q	contracts/interfaces/IERC20.sol		1	77	26	17	57	13	<u>*</u>
Q	contracts/interfaces/IFlashLoanReceiver.sol		1	20	13	3	8	3	
9	contracts/helpers/GenericERC20.sol	1		38	38	16	18	14	
9	contracts/helpers/FlashLoanBorrowerExample.sol	1		66	55	40	8	62	<u>♣</u> #
2	contracts/Swap.sol	1		552	454	212	195	177	
9	contracts/Router.sol	1		319	241	209	4	315	<u>*</u>
2	contracts/LPToken.sol	1		61	53	24	24	22	
*	contracts/utils/AddressUpgradeable.sol	1		165	149	67	100	42	₽
*	contracts/libraries/ECDSAUpgradeable.sol	1		86	86	27	50	34	■ 排 《 ※
E	contracts/libraries/CountersUpgradeable.sol	1		40	40	17	17	2	*
*	contracts/libraries/SafeMathUpgradeable.sol	1		214	214	61	139	16	*
%	contracts/libraries/ERC20PermitUpgradeable.sol	1		87	87	45	28	35	郡茶
%	contracts/libraries/ERC20BurnableUpgradeable.sol	1		51	51	22	22	24	*
\$	contracts/libraries/ReentrancyGuardUpgradeable.sol	1		68	68	20	38	11	*
\$	contracts/libraries/ContextUpgradeable.sol	1		32	32	17	12	7	*
\$	contracts/libraries/PausableUpgradeable.sol	1		97	97	35	50	23	*
E	contracts/libraries/Address.sol	1		189	169	78	113	47	
%	contracts/libraries/EIP712Upgradeable.sol	1		121	121	46	66	30	□ 挪 <u>※</u>
<i>\$</i>	contracts/libraries/OwnerPausableUpgradeable.sol	1		37	37	19	13	17	
\$	contracts/libraries/SafeMath.sol	1		214	214	61	139	16	*
*	contracts/libraries/Clones.sol	1		78	78	38	35	123	<u>■6</u> *
*	contracts/libraries/SafeERC20.sol	1		75	74	33	32	25	类
2	contracts/libraries/ERC20Upgradeable.sol	1		313	313	95	185	86	蕊
<i>\$</i>	contracts/OwnableUpgradeable.sol	1		75	75	33	33	31	※
*	contracts/MathUtils.sol	1		39	39	14	20	3	
•	contracts/proxy/Initializable.sol	1		55	55	21	24	9	*
*	contracts/AmplificationUtils.sol	1		160	148	90	44	46	
9	contracts/SwapFlashLoan.sol	1		169	152	73	65	40	
∌ ≜Q\$	Totals	27	6	4792	4230	2053	1907	1816	■••

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

	a custom complexity score derived from code statements that
Complexity Score	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	Files	A floating pragma is set	At the top of source file	The current pragma Solidity directive is "">=0.6.0 <0.8.0 "".
				 OwnableUpgradeable IERC20 IERC20PermitUpgradeable IERC20Upgradeable ISwap Address Clones ContextUpgradeable CountersUpgradeable ECDSAUpgradeable EIP712Upgradeable ERC20BurnableUpgradeable ERC20PermitUpgradeable ERC20Upgradeable PausableUpgradeable ReentrancyGuardUpgradeble SafeERC20 SafeMath SafeMathUpgradeable Initializable AddressUpgradeable
#3	LPToke n	State variables shadowing	26	Rename the state variables that shadow another component
#4	SwapFl ashLoa n	Missing Events Arithmetic	166-167	Emit an event for critical parameter changes

#5	Files	Layout ordering	See description	According to solidity documentation, the correct way to order is the following way:
				 types receive fallback external public Internal Private
				Keep it in mind, that the view and pure are grouping the external etc.
				Following files can be reordered by this layout:
				SwapUtilsSwapAmplificationUtils

Informational issues

Issue	File	Type	Line	Description
#1	Router	Unused return values	96, 33, 43, 29, 156, 159, 185, 212,	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	SwapUti Is	Misspelling	See description	Change following words: - stableswap L205
				Make sure to change it everywhere else as well.

#3	Main	NatSpec documentation missing		If you started to comment your code, also comment all other functions, variables etc. Some NatSpec format is missing in following files: - Address - AddressUpgradeable - ContextUpgradeable - CounterUpgradeable - EIP712Upgradeable - SafeERC20 - Router - Swap
#4	ERC20P ermitUp gradeab le	Unused parameter	41	Remove unused parameter. Only just remove the variable "name" and leave the rest
#5	SwapUti Is Router Address Upgrad eable	Inconsistent coding style in source files	Source files	Some internal/private functions are leading with underscore and the others not like the following: calculateWithdrawOneTok en L155 - calculateWithdrawOneTok en L191 And so on. If you are going to change every internal function leading with an underscore make sure to change it everywhere else too.

#6	SwapUti Is	Unclear variable names	-	Variables were set with unclear names. This would be problematically if your are going to let other devs work on the contract because the unclear variables are not understandable.
				Examples:xp - getD - getY

Commented Code exist

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

File	Line		Comment
Amplifica tionUtils	73		// a0 + (a1 - a0) * (block.timestamp - t0) / (t1 - t0)
		79	// a0 - (a0 - a1) * (block.timestamp - t0) / (t1 - t0)
Swap	177-178		// swapStorage.initialATime = 0; // swapStorage.futureATime = 0;
SwapUtil s	226-228		// if i == tokenIndex, dxExpected = xp[i] * d1 / d0 - newY // else dxExpected = xp[i] - (xp[i] * d1 / d0) // xpReduced[i] -= dxExpected * fee / FEE_DENOMINATOR

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. April 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	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> <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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