

Blockchain Security | Smart Contract Audits | KYC

MADE IN GERMANY

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Version	Date	Description
1.0	19. March 2022	 Layout project Automated- /Manual-Security Testing Summary
1.1	29. March 2022	• Reaudit

Network Binance Smart Chain (BEP20)

Website https://xsurge.net/

Telegram https://t.me/XSURGEDEFI

Twitter https://twitter.com/XSURGEDEFI

Facebook https://www.facebook.com/groups/XSURGEDEFI

Instagram https://www.instagram.com/XSURGEDEFI/

Reddit https://www.reddit.com/r/XSURGE/

Discord https://discord.com/invite/XSURGE

Description

Surge is the first of it's kind that only allows for growth. The tokens use very low fees to raise the price floor with every transaction, whether it be buys, sells, or wallet-to-wallet transfers

Project Engagement

During the 19th of March 2022, **XSURGE 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.



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:

~	F	lib					
		Address.sol					
		IERC20.sol					
	- 🍦	IUniswapV2Router02.sol					
		Ownable.sol					
	- 🌢	ReentrantGuard.sol					
		SafeMath.sol					
		SwapHelper.sol					
		FlashLoanProvider.sol					
	٢	IERC3156FlashBorrower.sol					
		IERC3156FlashLender.sol					
	٠	IStableSwapRouter.sol					
		IXSurge.sol					
	٠	Migration.sol					
		Migrations.sol					
		NewTokenProposal.sol					
	٠	PromiseUSD.sol					
		ResourceCollector.sol					
		TokenFetcher.sol					
	٠	xSwap.sol					
	٠	XUSDV2.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

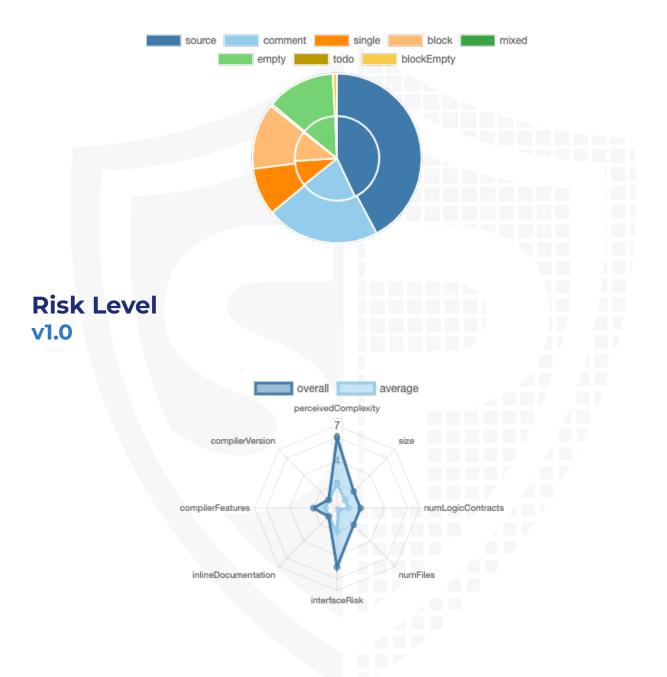
File Name	SHA-1 Hash
contracts/IERC3156FlashLender.sol	6fe140a50b566af15240c67b369eb1f28df2291c
contracts/IStableSwapRouter.sol	ec45d4c4c340c220902aa526bdb3eaa9c1827797
contracts/XUSDV2.sol	54104d577dfb15239237256c97506c0b089f753a
contracts/PromiseUSD.sol	eb1affcc8b9af7c1a239fab272419ee6110e8a4a
contracts/xSwap.sol	7946ffe8dab12dbbb9f5c226452cc2ad4deed09a
contracts/TokenFetcher.sol	39537e173fc21f055ca544875b47f294d532185c
contracts/NewTokenProposal.sol	5a1277c25521223e9f802b03827609844f841a9a
contracts/IXSurge.sol	1f619a8fd54af543e7d6d3c4db952ed7d4713348
contracts/IERC3156FlashBorrower.sol	2731967fc9e337a8bbbd584458d4889f88b58888

v1.1

SHA-1 Hash
baf77cd4de7816efad944073010e04f12e72164b
a8c08893362d0cf03e9bef7de0f4e758e12e4b40
70c28d47244fc3cf8b12d0ee5388de95d8815bb9
85c6214c5e7b8aba0ed001d3cbdd4e3eda8c03a7
0ea163740b2002aa54089ff4d92795cb7bf10f33
bf2f942e1efb3ee2bdf0826747a7e3c7a87059ac
232e2e7145c263a6e7b79dc6a1e9c37f00dca075
940d96838b6df390425e2af503870c31620d93af
595c0898952695f91168eeb8e97931a506a5a54d
2731967fc9e337a8bbbd584458d4889f88b58888
7a3ad64b2f97f6d2870c164ee84ceb56a6190c73



Source Lines v1.0



Capabilities

Components

Version	Contracts	Libraries	Interfaces	Abstract	
1.0	5	0	10	0	

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	109	5	

Version	External	Internal	Private	Pure	View
1.0	92	118	4	7	27

State Variables

Capabilities

Version	Solidity Versions observed	Experim ental Features	Can Receive Funds	Uses Assembl Y	Has Destroya ble Contract s	
1.0	0.8.4		yes			

Version	Transfer s ETH	Low- Level Calls	Deleg ateCa II	Uses Hash Function s	EC Rec ove r	New/ Create/ Create2
1.0	yes					

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

VI.U			
✓ NEWTOKENPROPOSAL	✓ XSWAPROUTER	✓ RESOURCECOLLECTOR	✓ FLASHLOANPROVIDER
approvePendingStable	addXToken	addResource	changeOwner
changeOwnership	changeOperator	bnbToToken	flashLoan
pairXUSD	exchange	changeOwner	fulfillFlashLoanRequest
proposeStable	exchange	changeResourcePoints	ant San Danis
	exchange		setFeeRank
	exchange	deliver	setXUSD
approve	removeXToken	deliverSellableTokens	
burnCollateral	restrictTokenAccess	deliverToken	✓ XUSD addStable
makePayment	setFeeRank	removeResource	approve
mint	setRates	sellAllAndDeliver	burn changeOwner
pairXUSD	unRestrictTokenAccess	sellAndDeliver	disableMintForStable
setApprovedContract			exchange mintWithBacking
		sellXUSD	mintWithBacking
setNonce		tokenToBNB	mintWithNative
takeLoan			redeemForLostAccount
takeLoan	balanceToStable	sellSurge	removeStable requestFlashLoan
transfer	bnbToStable	sellXUSDAndDeliver	requestPromiseTokens
			sell
transferFrom			sell
	withdraw		sell setApprovedPromiseUSD
			setFees
			setPermissions
migrate			transfer
pairXUSDV2			transferFrom
			upgradeFlashLoanProvider
setTaxFreeAmounts			upgradeResourceCollector
			upgradeTokenFetcher upgradeXSwapRouter

Overall checkup (Smart Contract Security)



Legend

Attribute	Symbol
Verfified / Checked	\checkmark
Partly Verified	•
Unverified / Not checked	×
Not available	-



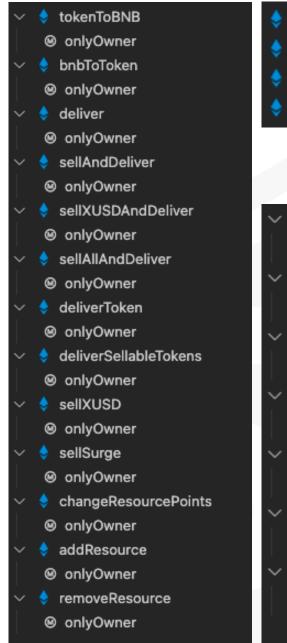
Modifiers and public functions v1.0

FlashLoanProvider PromiseUSD approve setXUSD 🔶 transfer onlyOwner 🔶 transferFrom 🔶 setFeeRank 🔶 pairXUSD onlyOwner setApprovedContract flashLoan ❷ onlyXUSD fulfillFlashLoanRequest 🔶 burnCollateral 🔶 changeOwner onlyApproved onlyOwner 🔶 makePayment Migration onlyApproved 🔶 takeLoan pairXUSDV2 onlyApproved onlyOwner 🔶 setNonce 🔶 setTaxFreeAmounts onlyApproved onlyOwner mint 🌻 migrate onlyXUSD **NewTokenProposal** approvePendingStable onlyOwner 🔶 proposeStable onlyOwner 🔶 pairXUSD onlyOwner

🔶 changeOwnership

onlyOwner

ResourceCollector



TokenFetcher

٢	bnbToStable 💰
٢	balanceToStable
٢	withdraw
٢	burnXUSD
	xSwap
\sim	🔶 changeOperator
	onlyOperator
Y	🔶 setRates
	onlyOperator
Y	🔶 addXToken
	onlyOperator
\sim	🔶 setFeeRank

onlyOperator

🔶 removeXToken

onlyOperator

🔶 restrictTokenAccess

onlyOperator

🔶 unRestrictTokenAccess

onlyOperator

🌻 exchange

XUSDV2

🔶 transfer				
notEntered				
🔶 transferFrom				
❷ notEntered				
🗦 mintWithNative 👸				
ontEntered				
mintWithBacking				
InotEntered				
sell				
otEntered				
hange				
notEntered				
n				
Entered				
uestPromiseTokens				
onReentrant				
stFlashLoan				
Reentrant				
radeFlashLoanProvider				
lyOwner				
radeTokenFetcher				
lyOwner				
gradeXSwapRouter				
onlyOwner				
pgradeResourceCollector				
nlyOwner				
isableMintForStable				
onlyOwner				
ddStable				
emoveStable				
nonReentrant				
onlyOwner				
withdrawNonStableToken				
onlyOwner				
deemForLostAccount				
nlyOwner				
etFees				
onlyOwner				
setPermissions				
onlyOwner				
onlyOwner setApprovedPromiseUSDContract				

Comments

• Deployer can set following state variables without any limitations

- <u>Migration.sol</u>
 - taxFreeAmount
- <u>ResourceCollector</u>
 - receivers[resource].points
- <u>XUSDV2</u>
 - <u>resourceAllocationPercentage</u>

• Deployer can enable/disable following state variables

• <u>xSwap</u>

- <u>tokenDeniedFromSwap[token]</u>
- <u>XUSDV2</u>
 - stableAssets[stable].mintDisabled
 - isTransferFeeExempt[Contract]

Deployer can set following addresses

- FlashLoanProvider.sol
 - XUSD
 - Only once if address is zero address and the new address isn't
 - <u>NewTokenProposal</u>
 - pendingStableToken
 - · XUSD
 - Only once if address is zero address and the new address isn't
 - owner
- PromiseUSD
 - XUSD
 - Only once if address is zero address and the new address isn't
 - nonces[msg.sender]
- <u>xSwap</u>
 - operator
 - xTokens[xtoken].resourceCollector
- <u>XUSDV2</u>
 - flashLoanProvider
 - TokenFetcher
 - xSwapRouter
 - resourceCollector
- <u>FlashLoanProvider</u>
 - If feeRank is 2 from address, the calculated flash fee will be every time zero in L101
- <u>Migration</u>
 - XUSDV can only be paired once
- PromiseUSD
 - Only XUSD can mint new tokens
 - <u>ResourceCollector</u>
 - Owner can send token to bnb
- <u>XUSDV2</u>

•

- Anybody can
 - Burn

- Mint
- Fees are set to 0.75% by default but can be set to 2% with setFees function
- Owner can disable minting

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
Q	contracts/IERC3156FlashLender.sol		1	35	12	4	19	7	*
Q	contracts/IStableSwapRouter.sol		1	20	9	3	10	7	
	contracts/XUSDV2.sol	1	3	965	945	518	291	483	. 💰 📥
2 0	contracts/PromiseUSD.sol	1	1	381	355	172	149	148	*
2	contracts/xSwap.sol	1		245	237	169	23	106	*
	contracts/TokenFetcher.sol	1	1	57	54	39	3	50	
	contracts/NewTokenProposal.sol	1	1	73	70	45	10	38	
Q	contracts/IXSurge.sol		1	21	11	4	5	26	.š.
Q	contracts/IERC3156FlashBorrower.sol		1	21	14	3	10	3	*
	Totals	5	10	1818	1707	957	520	868	<u>نې جو ق</u>

v1.1

Туре	File	Logic Contracts	Interfaces	Lines	nLines	nSLOC	Comment Lines	Complex. Score	Capabilities
- Maria	contracts/ResourceCollector.sol	2	2	265	253	171	26	239	*
Q	contracts/IStableSwapRouter.sol		1	25	9	3	13	9	
)Q	contracts/PromiseUSD.sol	1	1	382	356	173	149	148	<u>*</u>
) J	contracts/xSwap.sol	1	1	267	238	170	35	125	*
Q	contracts/IFlashLender.sol		1	37	12	4	20	7	
Q	contracts/IFlashBorrower.sol		1	23	15	3	11	3	*
Q	contracts/TokenFetcher.sol	1	1	89	84	60	6	74	<u>š</u> 📥
) J	contracts/NewTokenProposal.sol	1	2	86	71	46	10	57	
Q	contracts/IXSurge.sol		1	23	11	4	5	30	
Q	contracts/IERC3156FlashBorrower.sol		1	21	14	3	10	3	*
) J	contracts/FlashLoanProvider.sol	1	3	251	199	130	53	127	
) Q	Totals	7	15	1469	1262	767	338	822	š 📤 🎆 🔆

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	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	NewTok enProp osal	Missing Zero Address Validation (missing- zero-check)		83	Check that the address is not zero
#3	Ownabl e	Missing Zero Address Validation (missing- zero-check)		39	Check that the address is not zero.
#4	Resourc eCollect or	Missing Zero Address Validation (missing- zero-check)	118, 122		Check that the address is not zero
#5	XUSDV2	Missing Zero Address Validation (missing- zero-check)	7	73	Check that the address is not zero

#6	XUSDV2	State variable visibility is not set	44, 47, 48	It is best practice to set the visibility of state variables explicitly
				explicitly

Informational issues

Issue	File	Туре	Line	Description
#1	Migratio n	State variables that could be declared constant (constable- states)	24	Add the `constant` attributes to state variables that never change
#2	Migratio n	Unused state variables	24	Remove unused state variables
#3	Main	NatSpec documentation missing	-	If you started to comment your code, also comment all other functions, variables etc.
#4	Reource Collecto r	Require message missing	184	Provide an error message
#5	XUSDV2	Require message missing	All require statements	Provide an error message

Audit Comments

We recommend you to use the special form of comments (NatSpec Format, Follow link for more information <u>https://docs.soliditylang.org/en/</u><u>v0.5.10/natspec-format.html</u>) 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. March 2022:

Read whole report carefully for more information

29. March 2022:

- Several bugs were fixed by Surge team
- Read whole report carefully for more information

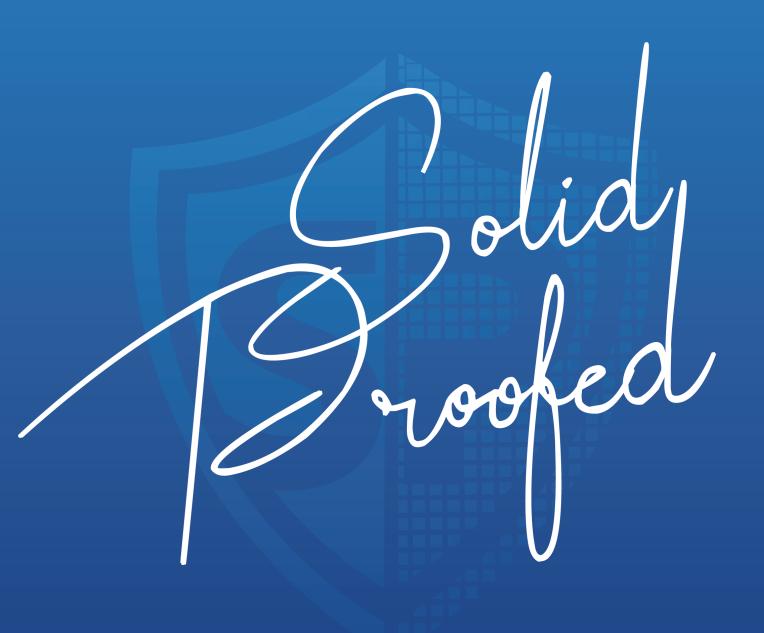
SWC Attacks

ID	Title	Relationships	Status
<u>SW</u> <u>C-1</u> <u>36</u>	Unencrypted Private Data On-Chain	<u>CWE-767: Access to Critical</u> <u>Private Variable via Public</u> <u>Method</u>	PASSED
<u>SW</u> <u>C-1</u> <u>35</u>	Code With No Effects	<u>CWE-1164: Irrelevant Code</u>	PASSED
<u>SW</u> <u>C-1</u> <u>34</u>	Message call with hardcoded gas amount	<u>CWE-655: Improper</u> <u>Initialization</u>	PASSED
<u>SW</u> <u>C-1</u> <u>33</u>	Hash Collisions With Multiple Variable Length Arguments	<u>CWE-294: Authentication</u> <u>Bypass by Capture-replay</u>	PASSED
<u>SW</u> <u>C-1</u> <u>32</u>	Unexpected Ether balance	<u>CWE-667: Improper Locking</u>	PASSED
<u>SW</u> <u>C-1</u> <u>31</u>	Presence of unused variables	<u>CWE-1164: Irrelevant Code</u>	NOT PASSED
<u>SW</u> <u>C-1</u> <u>30</u>	Right-To-Left- Override control character (U+202E)	<u>CWE-451: User Interface (UI)</u> <u>Misrepresentation of Critical</u> <u>Information</u>	PASSED
<u>SW</u> <u>C-1</u> <u>29</u>	Typographical Error	<u>CWE-480: Use of Incorrect</u> <u>Operator</u>	PASSED
<u>SW</u> <u>C-1</u> <u>28</u>	DoS With Block Gas Limit	<u>CWE-400: Uncontrolled</u> <u>Resource Consumption</u>	PASSED

<u>SW</u> <u>C-1</u> <u>27</u>	Arbitrary Jump with Function Type Variable	<u>CWE-695: Use of Low-Level</u> <u>Functionality</u>	PASSED
<u>SW</u> <u>C-1</u> <u>25</u>	Incorrect Inheritance Order	<u>CWE-696: Incorrect Behavior</u> <u>Order</u>	PASSED
<u>SW</u> <u>C-1</u> <u>24</u>	Write to Arbitrary Storage Location	<u>CWE-123: Write-what-where</u> <u>Condition</u>	PASSED
<u>SW</u> <u>C-1</u> <u>23</u>	Requirement Violation	<u>CWE-573: Improper Following</u> of Specification by Caller	PASSED
<u>SW</u> <u>C-1</u> <u>22</u>	Lack of Proper Signature Verification	<u>CWE-345: Insufficient</u> <u>Verification of Data</u> <u>Authenticity</u>	PASSED
<u>SW</u> <u>C-1</u> <u>21</u>	Missing Protection against Signature Replay Attacks	<u>CWE-347: Improper</u> <u>Verification of Cryptographic</u> <u>Signature</u>	PASSED
<u>SW</u> <u>C-1</u> <u>20</u>	Weak Sources of Randomness from Chain Attributes	<u>CWE-330: Use of Insufficiently</u> <u>Random Values</u>	PASSED
<u>SW</u> <u>C-11</u> <u>9</u>	Shadowing State Variables	<u>CWE-710: Improper Adherence</u> <u>to Coding Standards</u>	PASSED
<u>SW</u> <u>C-11</u> <u>8</u>	Incorrect Constructor Name	<u>CWE-665: Improper</u> Initialization	PASSED
<u>SW</u> <u>C-11</u> 7	Signature Malleability	<u>CWE-347: Improper</u> <u>Verification of Cryptographic</u> <u>Signature</u>	PASSED

<u>SW</u> <u>C-11</u> <u>6</u>	Timestamp Dependence	<u>CWE-829: Inclusion of</u> <u>Functionality from Untrusted</u> <u>Control Sphere</u>	PASSED
<u>SW</u> <u>C-11</u> <u>5</u>	Authorization through tx.origin	<u>CWE-477: Use of Obsolete</u> <u>Function</u>	PASSED
<u>SW</u> <u>C-11</u> <u>4</u>	Transaction Order Dependence	<u>CWE-362: Concurrent</u> <u>Execution using Shared</u> <u>Resource with Improper</u> <u>Synchronization ('Race</u> <u>Condition')</u>	PASSED
<u>SW</u> <u>C-11</u> <u>3</u>	DoS with Failed Call	<u>CWE-703: Improper Check or</u> <u>Handling of Exceptional</u> <u>Conditions</u>	PASSED
<u>SW</u> <u>C-11</u> <u>2</u>	Delegatecall to Untrusted Callee	<u>CWE-829: Inclusion of</u> <u>Functionality from Untrusted</u> <u>Control Sphere</u>	PASSED
<u>SW</u> <u>C-11</u> 1	Use of Deprecated Solidity Functions	<u>CWE-477: Use of Obsolete</u> <u>Function</u>	PASSED
<u>SW</u> <u>C-11</u> <u>0</u>	Assert Violation	<u>CWE-670: Always-Incorrect</u> <u>Control Flow Implementation</u>	PASSED
<u>SW</u> <u>C-1</u> <u>09</u>	Uninitialized Storage Pointer	<u>CWE-824: Access of</u> <u>Uninitialized Pointer</u>	PASSED
<u>SW</u> <u>C-1</u> <u>08</u>	State Variable Default Visibility	<u>CWE-710: Improper Adherence</u> <u>to Coding Standards</u>	NOT PASSED
<u>SW</u> <u>C-1</u> <u>07</u>	Reentrancy	<u>CWE-841: Improper</u> <u>Enforcement of Behavioral</u> <u>Workflow</u>	PASSED
<u>SW</u> <u>C-1</u> <u>06</u>	Unprotected SELFDESTRUC T Instruction	<u>CWE-284: Improper Access</u> <u>Control</u>	PASSED

<u>SW</u> <u>C-1</u> <u>05</u>	Unprotected Ether Withdrawal	<u>CWE-284: Improper Access</u> <u>Control</u>	PASSED
<u>SW</u> <u>C-1</u> <u>04</u>	Unchecked Call Return Value	<u>CWE-252: Unchecked Return</u> <u>Value</u>	PASSED
<u>SW</u> <u>C-1</u> <u>03</u>	Floating Pragma	<u>CWE-664: Improper Control of</u> <u>a Resource Through its</u> <u>Lifetime</u>	PASSED
<u>SW</u> <u>C-1</u> <u>02</u>	Outdated Compiler Version	<u>CWE-937: Using Components</u> with Known Vulnerabilities	PASSED
<u>SW</u> <u>C-1</u> <u>O1</u>	Integer Overflow and Underflow	<u>CWE-682: Incorrect</u> <u>Calculation</u>	PASSED
<u>SW</u> <u>C-1</u> <u>00</u>	Function Default Visibility	<u>CWE-710: Improper Adherence</u> <u>to Coding Standards</u>	PASSED



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