



Full Audit Report

Jeti Services Security Assessment

Real Cybersecurity
Protecting digital assets



SECURI LAB
(THAILAND) contact@securi-lab.com



FULL AUDIT REPORT

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Report Information

About Report	Jeti Services Security Assessment
Version	v1.1
Client	Jeti Service
Language	Solidity
Confidentiality	Public
Contract File	JSRVGovernanceFactory.sol SHA-1: bbee4fcd8b5ae5689609640c3b64ad3733a5c2f0 JSRVGovernance.sol SHA-1: 4cbebeb29afeec54528d233b9e6e0509e1474f44 Blacklist.sol SHA-1: e3022a71f8a6a09a0b79f7f2f1c2358bed6b36c
Audit Method	Whitebox
Security Assessment Author	Auditor Mark K. [Security Researcher Redteam] Kevin N. [Security Researcher Web3 Dev] Yusheng T. [Security Researcher Incident Response] Approve Document Ronny C. CTO & Head of Security Researcher Chinnakit J. CEO & Founder

*Audit Method

Whitebox: SECURI LAB Team receives all source code from the client to provide the assessment.

Blackbox: SECURI LAB Team receives only bytecode from the client to provide the assessment.

Digital Sign (Only Full Audit Report)

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Disclaimer

Regarding this security assessment, there are no guarantees about the security of the program instruction received from the client is hereinafter referred to as **"Source code"**.

And **SECURI Lab** hereinafter referred to as **"Service Provider"**, the **Service Provider** will not be held liable for any legal liability arising from errors in the security assessment. The responsibility will be the responsibility of the **Client**, hereinafter referred to as **"Service User"** and the **Service User** agrees not to be held liable to the **service provider** in any case. By contract **Service Provider** to conduct security assessments with integrity with professional ethics, and transparency to deliver security assessments to users The **Service Provider** has the right to postpone the delivery of the security assessment. If the security assessment is delayed whether caused by any reason and is not responsible for any delayed security assessments.

If the **service provider** finds a vulnerability The **service provider** will notify the **service user** via the Preliminary Report, which will be kept confidential for security. The **service provider** disclaims responsibility in the event of any attacks occurring whether before conducting a security assessment. Or happened later All responsibility shall be sole with the **service user**.

Security Assessment Not Financial/Investment Advice Any loss arising from any investment in any project is the responsibility of the investor.

SECURI LAB disclaims any liability incurred. Whether it's Rugpull, Abandonment, Soft Rugpull

The SECURI LAB team has conducted a comprehensive security assessment of the vulnerabilities. This assessment is tested with an expert assessment. Using the following test requirements

1. Smart Contract Testing with Expert Analysis By testing the most common and uncommon vulnerabilities.
2. Automated program testing It includes a sample vulnerability test and a sample of the potential vulnerabilities being used for the most frequent attacks.
3. Manual Testing with AST/WAS/ASE/SMT and reviewed code line by line
4. Visibility, Mutability, Modifier function testing, such as whether a function can be seen in general, or whether a function can be changed and if so, who can change it.
5. Function association test It will be displayed through the association graph.
6. This safety assessment is cross-checked prior to the delivery of the assessment results.

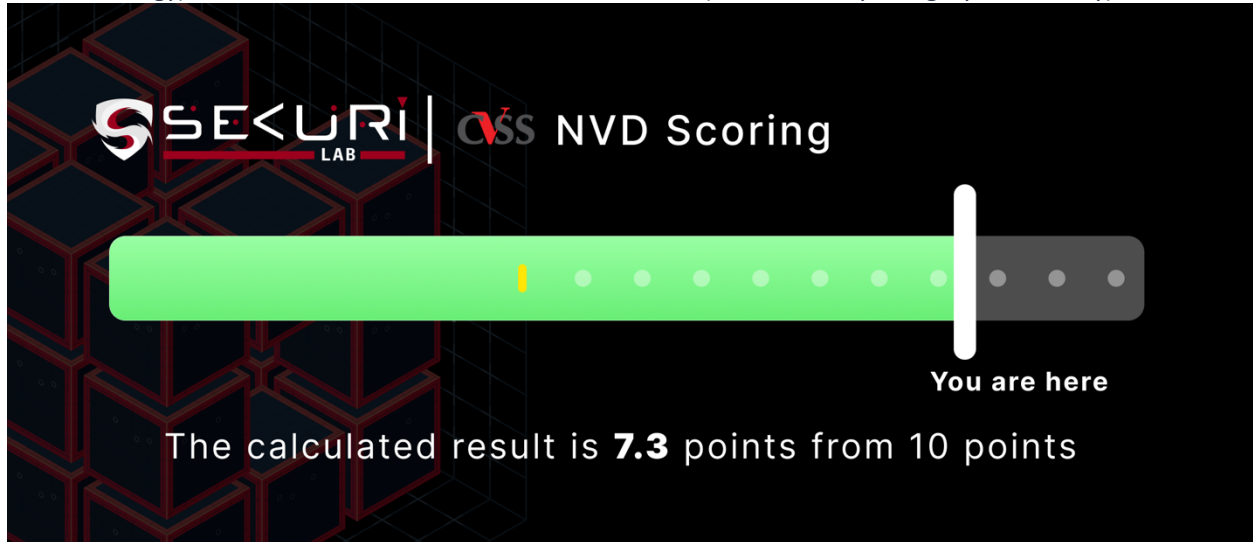
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Executive Summary

For this security assessment, SECURI LAB received a request from **Jeti Services on Tuesday, March 21, 2023.**

NVD CVSS Scoring

The score was calculated using the NVD (National Vulnerability Database) of NIST (National Institute of Standards and Technology) under the CVSS 3.1 standard, based on the CIA (Confidentiality, Integrity, Availability).



Audit Result

SECURI LAB evaluated the smart contract security of the project and found: **[Total : 9]**

Critical	High	Medium	Low	Very Low	Informational
0	2	0	2	0	5



SECURI LAB has assessed the security of this smart contract.

The results of the security assessment revealed

No Critical Vulnerabilities.

Full Audit Report by SECURI LAB on Apr 14, 2023



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Project Introduction

Scope Information:

Project Name	Jeti Services
Website	https://jeti.one/
Chain	-
Language	Solidity

Audit Information:

Request Date	Tuesday, March 21, 2023
Audit Date	Wednesday, March 29, 2023
Re-assessment Date	Sunday, April 9, 2023

Audit Version History:

Version	Date	Description
1.0	Wednesday, March 29, 2023	Preliminary Report
1.1	Sunday, April 9, 2023	Preliminary Report With Re-assessment
1.2	Friday, April 14, 2023	Full audit report

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





Initial Audit Scope:

Smart Contract File	JSRVGovernanceFactory.sol SHA-1: cd9db78ffdc6b07da3bc5398189eb76dc55ed98f JSRVGovernance.sol SHA-1: 33e8e2ce9bfd191cf6f5fb8f0367b494ab086076 Blacklist.sol SHA-1: e3022a71f8a6a09a0b79f7f2f1c2358befd6b36c
Compiler Version	v0.8.17

Source Units in Scope

Source Units Analyzed: 3

Source Units in Scope: 3 (100%)

Type	File	Log ic Co ntr act s	Interf aces	Li ne s	nL in es	nS L O C	Co mm ent Lin es	Co mpl ex. Sc ore	Capa bilitie s
	contracts/Tokens/JSRVGovernance.sol	2	1	618	580	449	2	336	
	contracts/Blacklist.sol	1		139	139	96	3	48	
	contracts/JSRVGovernanceFactory.sol	1	1	102	91	74	1	65	
	Totals	4	2	859	810	619	6	449	

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Legend: []

- **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, ...)

Dependencies / External Imports

Dependency / Import Path	Count
@openzeppelin/contracts/access/Ownable.sol	3
@openzeppelin/contracts/security/Pausable.sol	1
@openzeppelin/contracts/security/ReentrancyGuard.sol	2
@openzeppelin/contracts/token/ERC20/IERC20.sol	1
@openzeppelin/contracts/utils/Address.sol	2
@openzeppelin/contracts/utils/Counters.sol	1
@openzeppelin/contracts/utils/Strings.sol	1
@openzeppelin/contracts/utils/math/SafeMath.sol	1

Description Report Files Description Table

File Name	SHA-1 Hash
contracts/Tokens/JSRVGovernance.sol	33e8e2ce9bfd191cf6f5fb8f0367b494ab086076
contracts/Blacklist.sol	e3022a71f8a6a09a0b79f7f2f1c2358befd6b36c
contracts/JSRVGovernanceFactory.sol	cd9db78ffdc6b07da3bc5398189eb76dc55ed98f

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
Initial Re-assessment Audit Scope:

Smart Contract File	JSRVGovernanceFactory.sol SHA-1: bbee4fcd8b5ae5689609640c3b64ad3733a5c2f0 JSRVGovernance.sol SHA-1: 4cbebeb29afeec54528d233b9e6e0509e1474f44 Blacklist.sol SHA-1: e3022a71f8a6a09a0b79f7f2f1c2358befd6b36c
Compiler Version	v0.8.17

Source Units in Scope

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Source Units in Scope: 3 (100%)

Type	File	Log ic Co ntr act s	Interf aces	Li n e s	nL in es	nS L O C	Co mm ent Lin es	Co mpl ex. Sc ore	Capa bilitie s
	contracts/Tokens/JSRVGovernance.sol	2	1	711	672	520	2	373	
	contracts/Blacklist.sol	1		139	139	96	3	48	
	contracts/JSRVGovernanceFactory.sol	1	1	122	111	89	1	76	
	Totals	4	2	972	922	705	6	497	

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- **Lines:** total lines of the source unit
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Dependencies / External Imports

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@openzeppelin/contracts/access/Ownable.sol	3
@openzeppelin/contracts/security/Pausable.sol	1
@openzeppelin/contracts/security/ReentrancyGuard.sol	2
@openzeppelin/contracts/token/ERC20/IERC20.sol	1
@openzeppelin/contracts/utils/Address.sol	2
@openzeppelin/contracts/utils/Counters.sol	1
@openzeppelin/contracts/utils/Strings.sol	1
@openzeppelin/contracts/utils/math/SafeMath.sol	1

Description Report Files Description Table

File Name	SHA-1 Hash
contracts/JSRVGovernanceFactory.sol	bbee4fcd8b5ae5689609640c3b64ad3733a5c2f0
contracts/Blacklist.sol	e3022a71f8a6a09a0b79f7f2f1c2358befd6b36c
contracts/Tokens/JSRVGovernance.sol	4cbebeb29afeec54528d233b9e6e0509e1474f44

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Security Assessment Procedure

Securi has the following procedures and regulations for conducting security assessments:

1.Request Audit Client submits a form request through the Securi channel. After receiving the request, Securi will discuss a security assessment. And drafting a contract and agreeing to sign a contract together with the Client

2.Auditing Securi performs security assessments of smart contracts obtained through automated analysis and expert manual audits.

3.Preliminary Report At this stage, Securi will deliver an initial security assessment. To report on vulnerabilities and errors found under Audit Scope will not publish preliminary reports for safety.

4.Reassessment After Securi has delivered the Preliminary Report to the Client, Securi will track the status of the vulnerability or error, which will be published to the Final Report at a later date with the following statuses:

a.Acknowledge The client has been informed about errors or vulnerabilities from the security assessment.

b.Resolved The client has resolved the error or vulnerability. Resolved is probably just a commit, and Securi is unable to verify that the resolved has been implemented or not.

c.Decline Client has rejected the results of the security assessment on the issue.

5.Final Report Securi providing full security assessment report and public



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Risk Rating

Risk rating using this commonly defined: $Risk\ rating = impact * confidence$

Impact The severity and potential impact of an attacker attack

Confidence Ensuring that attackers expose and use this vulnerability

Both have a total of 3 levels: **High, Medium, Low**. By *Informational* will not be classified as a level

Confidence Impact [Likelihood]	Low	Medium	High
Low	Very Low	Low	Medium
Medium	Low	Medium	High
High	Medium	High	Critical



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Vulnerability Severity Summary

Severity is a risk assessment It is calculated from the Impact and Confidence values using the following calculation methods,

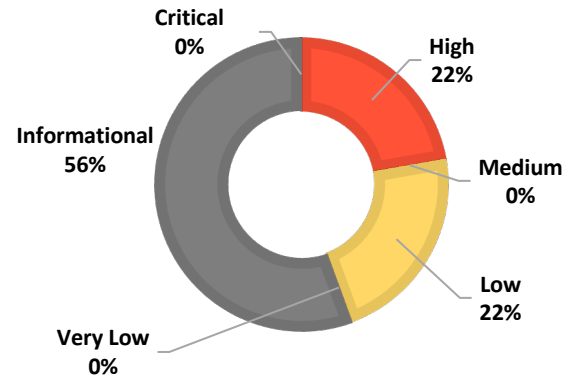
$Risk\ rating = impact * confidence$

It is categorized into

5 categories based on the lowest severity:

Very Low, Low, Medium, High, Critical.

For **Informational** & will **Non-class/Optimization/Best-practices** will not be counted as severity



Vulnerability Severity Level	Total
Critical	0
High	2
Medium	0
Low	2
Very Low	0
Informational	5
Non-class/Optimization/Best-practices	5

Category information:

Centralization Centralization Risk is The risk incurred by a sole proprietor, such as the Owner being able to change something without permission	Economics Risk Economics Risk is Risks that may affect the economic mechanism system, such as the ability to increase Mint token	Logical Issue Logical Issue is that can cause errors to core processing, such as any prior operations that cause background processes to crash.	Authorization Authorization is Possible pitfalls from weak coding allows unrelated people to take any action to modify the values.	Mathematical Mathematical Any erroneous arithmetic operations affect the operation of the system or lead to erroneous values.	Naming Conventions Naming Conventions naming variables that may affect code understanding or naming inconsistencies
Security Risk Security Risk of loss or damage if it's no mitigate	Coding Style Coding Style is Tips coding for efficiency performance	Best Practices Best Practices is suggestions for improvement	Optimization Optimization is performance improvement	Gas Optimization Gas Optimization is increase performance to avoid expensive gas	Dead Code Dead Code having unused code This may result in wasted resources and gas fees.

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Vulnerability Findings

ID	Vulnerability Detail	Severity	Category	Status
SEC-01	Centralization Risk	High	Centralization	Resolved
SEC-02	Contract's name reused	High	Naming Conventions	Resolved
SEC-03	Avoid using block timestamp	Low	Best Practices	Acknowledge
SEC-04	Unsafe ERC20 operation(s)	Low	Best Practices	Acknowledge
SEC-05	Conformance to numeric notation best practices (too-many-digits)	Informational	Best Practices	Resolved
SEC-06	Conformance to numeric notation best practices	Informational	Naming Conventions	Acknowledge
SEC-07	Costly operations in a loop (costly-loop)	Informational	Optimization	Acknowledge
SEC-08	If different pragma directives are used (pragma)	Informational	Best Practices	Acknowledge
SEC-09	Reentrancy vulnerabilities through send and transfer (reentrancy-unlimited-gas)	Informational	Security Risk	Acknowledge
GAS-01	Use `selfbalance()` instead of `address(this).balance`	-	Gas Optimization	Acknowledge
GAS-02	Use assembly to check for `address(0)`	-	Gas Optimization	Resolved
GAS-03	`array[index] += amount` is cheaper than `array[index] = array[index] + amount` (or related variants)	-	Gas Optimization	Resolved
GAS-04	Use Custom Errors	-	Gas Optimization	Resolved
GAS-05	Use != 0 instead of > 0 for unsigned integer comparison	-	Gas Optimization	Resolved

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SEC-01: Centralization Risk

Vulnerability Detail	Severity	Location	Category	Status
Centralization Risk	High	Check on finding	Centralization	Resolved

Finding:

File: Blacklist.sol

```
8: contract Blacklist is Ownable {
```

```
114:     function addBlacklistAdmins(address _blacklistAdminsAddress, address
_allowedContracts) public onlyOwner {
```

```
122:     function removeBlacklistAdmins(address _blacklistAdminsAddress, address
_allowedContracts) public onlyOwner {
```

```
130:     function setAdmin(address _admin) public onlyOwner {
```

```
    }
```

File: JSRVGovernanceFactory.sol

```
14: contract JSRVGovernanceFactory is ReentrancyGuard, Ownable {
```

```
39:     function setFeeTo(address feeReceivingAddress) external onlyOwner {
```

```
43:     function setFlatFee(uint256 fee) external onlyOwner {
```

```
54:     function newBlacklistContract(address _newBlacklist) public onlyOwner {
```

```
58:     function newTokenFeeTo(address _newTokenFeeTo) public onlyOwner {
```

```
62:     function newTokenFee(uint256 _newTokenFee) public onlyOwner {
```

File: Tokens/JSRVGovernance.sol

```
24: contract JSRVGovernanceToken is IERC20, Ownable, BaseToken, Pausable,
ReentrancyGuard {
```

```
180:     function toggleRecycle() public onlyOwner {
```

```
184:     function pause() public onlyOwner {
```

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```
188:     function unpause() public onlyOwner {
519:     function depositProfitShare() public payable onlyOwner {
553:     function _setNewRecycleRate(uint256 _newRecycleRate) public onlyOwner {
559:     function _setNewRates(uint256[3] memory _newRate) public onlyOwner {
565:     function _setNewRedeemRate(uint256 _newRedeemRate) public onlyOwner {
571:     function _setNewThreshold(uint256[3] memory _newThreshold) public onlyOwner {
577:     function _setNewMinPurchase(uint256 _newMinPurchase) public onlyOwner {
583:     function _setNewMaxPurchase(uint256 _newMaxPurchase) public onlyOwner {
589:     function _setNewMaxHold(uint256 _newMaxHold) public onlyOwner {
595:     function _setBlacklistAddress(address blacklistAddress_) external onlyOwner {
609:     function withdrawExcess() public payable onlyOwner {
...

```

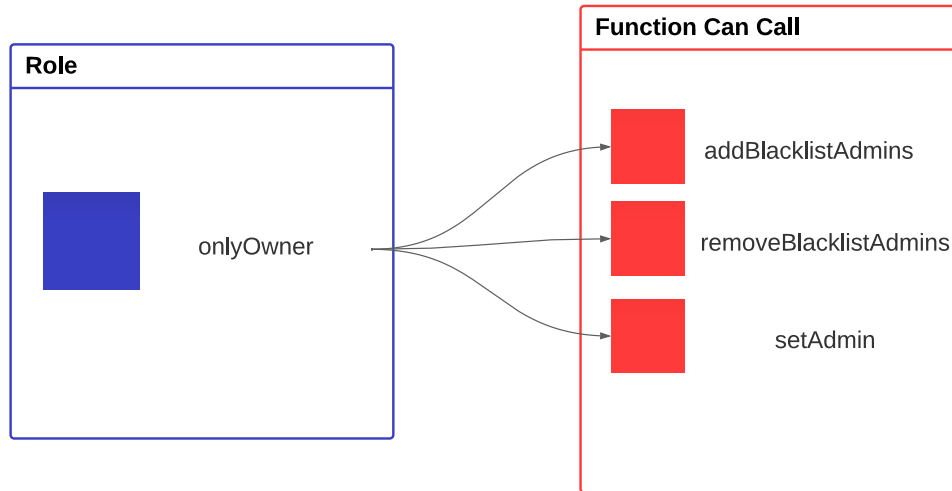
Scenario:

Centralized risk refers to the potential security risks that arise when a smart contract is controlled by a central entity or a single point of failure. If the contract is controlled by a central authority, then the contract may be vulnerable to attacks that target the centralized entity.

Centralized risk that can lead to rug pulls typically arises from the centralization of control or ownership of a project's assets, particularly in decentralized finance (DeFi) projects built on blockchain platforms like Ethereum.

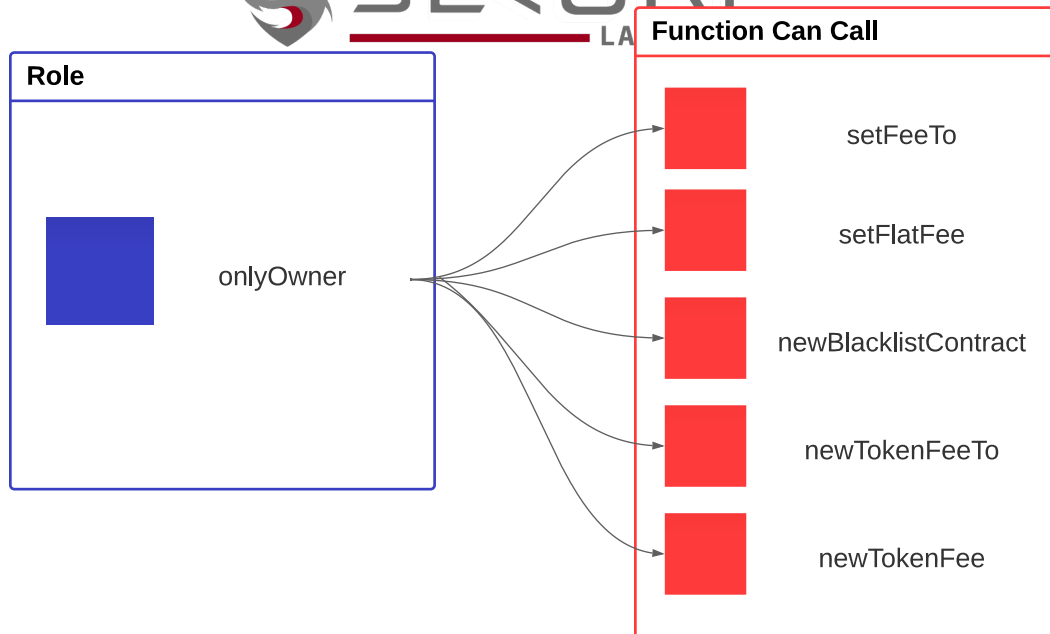
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Contract Blacklist (File: Blacklist.sol)



The aforementioned function in the Blacklist contract can only be invoked by the onlyOwner. This contract permits calling of **addBlacklistAdmins**, **removeBlacklistAdmins**, and **setAdmin** functions. Additionally, the implementation of a multi-signature feature adds another layer of security to safeguard the owner's account.

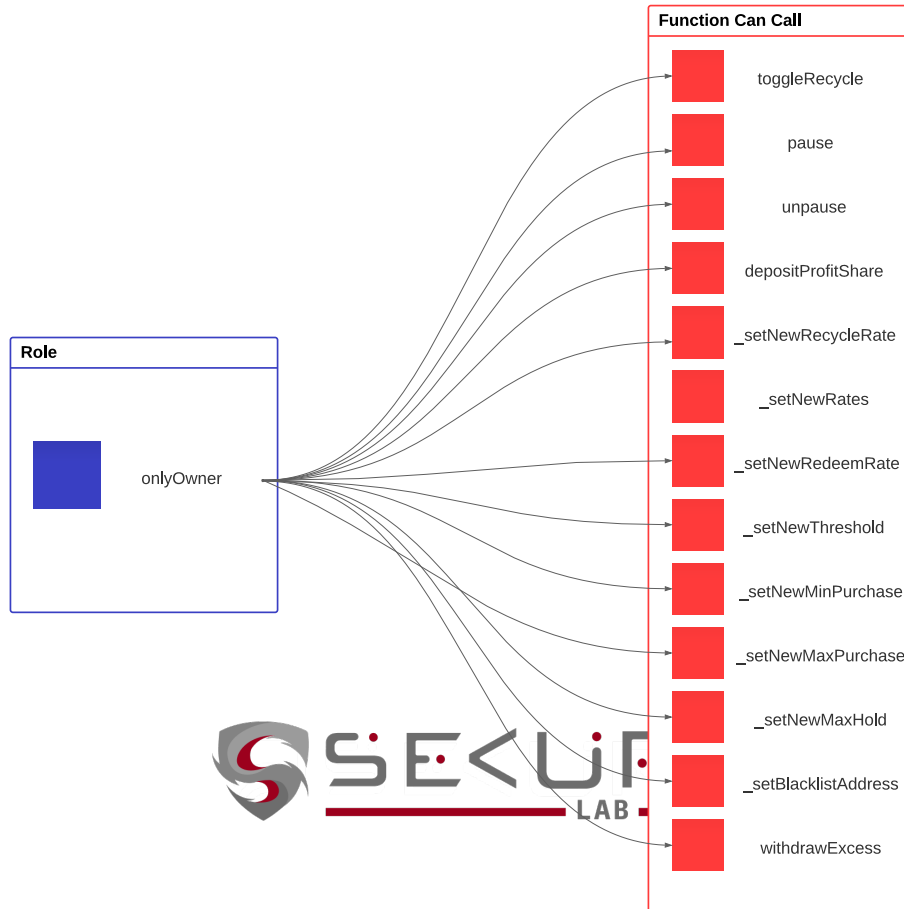
Contract JSRVGovernanceFactory (File: JSRVGovernanceFactory.sol)



In the JSRVGovernanceFactory contract, Owner can call functions **setFeeTo**, **setFlatFee**, **newBlacklistContract**, **newTokenFeeTo**, **newTokenFee**. Additionally, the implementation of a multi-signature feature adds another layer of security to safeguard the owner's account.

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Contract JSRVGovernanceToken (File: Tokens/JSRVGovernance.sol)



In the JSRVGovernanceFactory contract, Owner can call functions **toggleRecycle**, **pause**, **unpause**, **depositProfitShare**, **_setNewRecycleRate**, **_setNewRates**, **_setNewRedeemRate**, **_setNewThreshold**, **_setNewMinPurchase**, **_setNewMaxPurchase**, **_setNewMaxHold**, **_setBlacklistAddress**, **withdrawExcess**. We've found that some functions work in an anti-whale manner and allow the owner to pause trading. Assigning a blacklist address and also another function we recommend that for transparency use Timelock to increase the delay for users. Function calls are visible before they are fully executed. Additionally, the implementation of a multi-signature feature adds another layer of security to safeguard the owner's account.

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Recommendation:

In terms of timeframes, there are three categories: short-term, long-term, and permanent.

For short-term solutions, a combination of timelock and multi-signature (2/3 or 3/5) can be used to mitigate risk by delaying sensitive operations and avoiding a single point of failure in key management. This includes implementing a timelock with a reasonable latency, such as 48 hours, for privileged operations; assigning privileged roles to multi-signature wallets to prevent private key compromise; and sharing the timelock contract and multi-signer addresses with the public via a medium/blog link.

For long-term solutions, a combination of timelock and DAO can be used to apply decentralization and transparency to the system. This includes implementing a timelock with a reasonable latency, such as 48 hours, for privileged operations; introducing a DAO/governance/voting module to increase transparency and user involvement; and sharing the timelock contract, multi-signer addresses, and DAO information with the public via a medium/blog link.

Finally, permanent solutions should be implemented to ensure the ongoing security and protection of the system.

Alleviation:

Jeti team has already resolved this issue



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SEC-02: Contract's name reused (name-reused)

Vulnerability Detail	Severity	Location	Category	Status
Contract's name reused (name-reused)	High	Check on finding	Naming Conventions	Resolved

Finding:

```
iBlacklist is re-used:
  • iBlacklist (Tokens/JSRVGovernance.sol:14-16)
  • iBlacklist (JSRVGovernanceFactory.sol#10-12)
```

Recommendation:

Rename the contract.

Reference: <https://github.com/crytic/slither/wiki/Detector-Documentation#name-reused>

Exploit Scenario:

If a codebase has two contracts the similar names, the compilation artifacts will not contain one of the contracts with the duplicate name.

Bob's truffle codebase has two contracts named ERC20. When truffle compile runs, only one of the two contracts will generate artifacts in build/contracts. As a result, the second contract cannot be analyzed.

Alleviation:

Jeti team has already resolved this issue

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SEC-03: Avoid using block timestamp

Vulnerability Detail	Severity	Location	Category	Status
Avoid using block timestamp	Low	Check on finding	Best Practices	Acknowledge

Finding:

```

37:      uint256 blacklistStart = block.timestamp;

68:      uint256 remainTime = blacklist.blacklistEnd > block.timestamp ?
blacklist.blacklistEnd-block.timestamp : 0;

68:      uint256 remainTime = blacklist.blacklistEnd > block.timestamp ?
blacklist.blacklistEnd-block.timestamp : 0;

78:      uint256 remainTime = blacklist.blacklistEnd > block.timestamp ?
blacklist.blacklistEnd-block.timestamp : 0;

78:      uint256 remainTime = blacklist.blacklistEnd > block.timestamp ?
blacklist.blacklistEnd-block.timestamp : 0;

...

```

Recommendation:

Avoid relying on `block.timestamp`.

Reference: <https://github.com/crytic/slither/wiki/Detector-Documentation#block-timestamp>

Exploit Scenario:

Dangerous usage of block.timestamp. block.timestamp can be manipulated by miners.

"Bob's contract relies on block.timestamp for its randomness. Eve is a miner and manipulates block.timestamp to exploit Bob's contract.

Alleviation:

Jeti team has already Acknowledge this issue

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SEC-04: Unsafe ERC20 operation(s)

Vulnerability Detail	Severity	Location	Category	Status
Unsafe ERC20 operation(s)	Low	Check on finding	Best Practices	Acknowledge

Finding:

```
File: JSRVGovernanceFactory.sol
```

```
96: payable(feeTo).transfer(flatFee);
```

```
...
```

```
File: Tokens/JSRVGovernance.sol
```

```
512: payable(msg.sender).transfer(profitShare);
```

```
613: payable(msg.sender).transfer(balance);
```

```
...
```

Recommendation:

Unsafe ERC20 operations can lead to unexpected behavior and potential vulnerabilities in your smart contracts. To mitigate these risks, consider the following recommendations for safer ERC20 operations:

1. Check the return value of ERC20 functions:

Always check the return value of ERC20 functions like **transfer**, **transferFrom**, and **approve**.

These functions return a boolean value that indicates whether the operation was successful or not. Make sure to handle potential failures accordingly.

Exploit Scenario:

-

Alleviation:

Jeti team has already Acknowledge this issue

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SEC-05: Conformance to numeric notation best practices

Vulnerability Detail	Severity	Location	Category	Status
Conformance to numeric notation best practices (too-many-digits)	Informational	Check on finding	Best Practices	Resolved

Finding:

```
JSRVGovernanceFactory.constructor(address) (JSRVGovernanceFactory.sol:32-37) uses  
literals with too many digits:  
• flatFee = 10000000000000000 (JSRVGovernanceFactory.sol#36)
```

Recommendation:

Description

Literals with many digits are difficult to read and review.

Use:

- [Ether suffix](<https://solidity.readthedocs.io/en/latest/units-and-global-variables.html#ether-units>),
- [Time suffix](<https://solidity.readthedocs.io/en/latest/units-and-global-variables.html#time-units>), or
- [The scientific notation](<https://solidity.readthedocs.io/en/latest/types.html#rational-and-integer-literals>)



Reference: <https://github.com/crytic/slither/wiki/Detector-Documentation#too-many-digits>

Exploit Scenario:

```
contract MyContract{  
    uint 1_ether = 10000000000000000000;  
}
```

While 1_ether looks like 1 ether, it is 10 ether. As a result, it's likely to be used incorrectly.

Alleviation:

Jeti team has already resolved this issue and changed code to

```
flatFee[0] = 0.01 * 10**18 wei;  
flatFee[1] = 0.01 * 10**18 wei;
```

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SEC-06: Conformity to Solidity naming conventions (naming-convention)

Vulnerability Detail	Severity	Location	Category	Status
Conformity to Solidity naming conventions (naming-convention)	Informational	Check on finding	Naming Conventions	Acknowledge

Finding:

```

Function JSRVGovernanceToken._mint(uint256) (Tokens/JSRVGovernance.sol:294-327) is not
in mixedCase
Function JSRVGovernanceToken._recycleMint(uint256) (Tokens/JSRVGovernance.sol:329-351)
is not in mixedCase
Function JSRVGovernanceToken._setBlacklistAddress(address)
(Tokens/JSRVGovernance.sol:595-601) is not in mixedCase
Function JSRVGovernanceToken._setNewMaxHold(uint256) (Tokens/JSRVGovernance.sol:589-
593) is not in mixedCase
Function JSRVGovernanceToken._setNewMaxPurchase(uint256)
(Tokens/JSRVGovernance.sol:583-587) is not in mixedCase
Function JSRVGovernanceToken._setNewMinPurchase(uint256)
(Tokens/JSRVGovernance.sol:577-581) is not in mixedCase
Function JSRVGovernanceToken._setNewRates(uint256[3]) (Tokens/JSRVGovernance.sol:559-
563) is not in mixedCase
Function JSRVGovernanceToken._setNewRecycleRate(uint256)
(Tokens/JSRVGovernance.sol:553-557) is not in mixedCase
Function JSRVGovernanceToken._setNewRedeemRate(uint256)
(Tokens/JSRVGovernance.sol:565-569) is not in mixedCase
Function JSRVGovernanceToken._setNewThreshold(uint256[3])
(Tokens/JSRVGovernance.sol:571-575) is not in mixedCase
  
```

Recommendation:

Follow the Solidity [naming convention](<https://solidity.readthedocs.io/en/v0.4.25/style-guide.html#naming-conventions>).

Exploit Scenario:

-

Alleviation:

Jetti team has already Acknowledge this issue

FULL AUDIT REPORT

SEC-07: Costly operations in a loop (costly-loop)

Vulnerability Detail	Severity	Location	Category	Status
Costly operations in a loop (costly-loop)	Informational	Check on finding	Optimization	Acknowledge

Finding:

```
JSRVGovernanceToken.depositProfitShare() (Tokens/JSRVGovernance.sol:519-545) has  
costly operations inside a loop:  
  • _lastDeposited = i (Tokens/JSRVGovernance.sol#530)
```

Recommendation:

Use a local variable to hold the loop computation result.

Reference: <https://github.com/crytic/slither/wiki/Detector-Documentation#costly-operations-inside-a-loop>

Exploit Scenario:

Costly operations inside a loop might waste gas, so optimizations are justified.

```
contract CostlyOperationsInLoop{
```

```
    uint loop_count = 100;  
    uint state_variable=0;  
  
    function bad() external{  
        for (uint i=0; i < loop_count; i++){  
            state_variable++;  
        }  
    }  
}
```

```
    function good() external{  
        uint local_variable = state_variable;  
        for (uint i=0; i < loop_count; i++){  
            local_variable++;  
        }  
        state_variable = local_variable;  
    }  
}
```

Incrementing state_variable in a loop incurs a lot of gas because of expensive SSTOREs, which might lead to an out-of-gas.

Alleviation:

Jeti team has already Acknowledge this issue

FULL AUDIT REPORT

SEC-08: If different pragma directives are used (pragma)

Vulnerability Detail	Severity	Location	Category	Status
If different pragma directives are used (pragma)	Informational	Check on finding	Best Practices	Acknowledge

Finding:

Different versions of Solidity are used:

- Version used: ['0.8.17', '=0.8.17', '^0.8.0', '^0.8.1']
- 0.8.17 (Tokens/JSRVGovernance.sol#2)
- 0.8.17 (Blacklist.sol#2)
- =0.8.17 (JSRVGovernanceFactory.sol#2)
- ^0.8.0 (@openzeppelin/contracts/utils/math/Math.sol#4)
- ^0.8.0 (@openzeppelin/contracts/utils/math/SafeMath.sol#4)
- ^0.8.0 (@openzeppelin/contracts/security/ReentrancyGuard.sol#4)
- ^0.8.0 (@openzeppelin/contracts/utils/Context.sol#4)
- ^0.8.0 (@openzeppelin/contracts/utils/Strings.sol#4)
- ^0.8.0 (@openzeppelin/contracts/security/Pausable.sol#4)
- ^0.8.0 (@openzeppelin/contracts/utils/Counters.sol#4)
- ^0.8.0 (@openzeppelin/contracts/access/Ownable.sol#4)
- ^0.8.0 (@openzeppelin/contracts/token/ERC20/IERC20.sol#4)
- ^0.8.1 (@openzeppelin/contracts/utils/Address.sol#4)

Recommendation:

Use one Solidity version.

Reference: <https://github.com/crytic/slither/wiki/Detector-Documentation#different-pragma-directives-are-used>

Exploit Scenario:

-

Alleviation:

Jeti team has already Acknowledge this issue

FULL AUDIT REPORT

SEC-09: Reentrancy vulnerabilities through send and transfer (reentrancy-unlimited-gas)

Vulnerability Detail	Severity	Location	Category	Status
Reentrancy vulnerabilities through send and transfer (reentrancy-unlimited-gas)	Informational	Check on finding	Security Risk	Acknowledge

Finding:

```

Reentrancy in
JSRVGovernanceFactory.create(string[2],uint256,uint8,uint8,uint256[6],uint256[3],uint2
56[6]) (JSRVGovernanceFactory.sol:67-101):
  • address(feeTo).transfer(flatFee) (JSRVGovernanceFactory.sol#96)
  • refundExcessiveFee() (JSRVGovernanceFactory.sol#80)
  • (success) = recipient.call{value: amount}()
(@openzeppelin/contracts/utils/Address.sol#63)
  • address(feeTo).transfer(flatFee) (JSRVGovernanceFactory.sol#96)
  • TokenCreated(address(newToken),type_) (JSRVGovernanceFactory.sol#98)
Reentrancy in JSRVGovernanceToken.withdrawExcess() (Tokens/JSRVGovernance.sol:609-
616):
  • address(msg.sender).transfer(balance) (Tokens/JSRVGovernance.sol#613)
  • WithdrawExcessBalance(balance) (Tokens/JSRVGovernance.sol#615)
Reentrancy in JSRVGovernanceToken.redeemProfitShare() (Tokens/JSRVGovernance.sol:460-
517):
  • address(msg.sender).transfer(profitShare) (Tokens/JSRVGovernance.sol#512)
  • transfer(address(this),redeemTokens) (Tokens/JSRVGovernance.sol#514)
  • holder._tokens = holder._tokens + addAmount (Tokens/JSRVGovernance.sol#396)
  • holder._tokens = 0 (Tokens/JSRVGovernance.sol#407)
  • holder._tokens = holder._tokens - remain (Tokens/JSRVGovernance.sol#409)
  • transfer(address(this),redeemTokens) (Tokens/JSRVGovernance.sol#514)
  • _holderLastPurchased[_address] = purchaseRound (Tokens/JSRVGovernance.sol#399)
  • _holderLastRedeemed[msg.sender] = tempLastRedeem (Tokens/JSRVGovernance.sol#516)
  • transfer(address(this),redeemTokens) (Tokens/JSRVGovernance.sol#514)
  • _tOwned[recipient] = _tOwned[recipient] + amount (Tokens/JSRVGovernance.sol#260)
  • _tOwned[msg.sender] = _tOwned[msg.sender] - amount
(Tokens/JSRVGovernance.sol#261)
  • _totalAvailable = _totalAvailable - profitShare (Tokens/JSRVGovernance.sol#513)
  • Transfer(_msgSender(),recipient,amount) (Tokens/JSRVGovernance.sol#259)
  • transfer(address(this),redeemTokens) (Tokens/JSRVGovernance.sol#514)
  • TransferEvent(msg.sender,recipient,amount) (Tokens/JSRVGovernance.sol#265)
  • transfer(address(this),redeemTokens) (Tokens/JSRVGovernance.sol#514)

```

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Recommendation:

Apply the [`check-effects-interactions` pattern](<http://solidity.readthedocs.io/en/v0.4.21/security-considerations.html#re-entrancy>).

Reference: <https://github.com/crytic/slither/wiki/Detector-Documentation#reentrancy-vulnerabilities-4>

Exploit Scenario:

```
function callme(){  
    msg.sender.transfer(balances[msg.sender]):  
    balances[msg.sender] = 0;  
}
```

send and transfer do not protect from reentrancies in case of gas price changes.

Alleviation:

Jeti team has already Acknowledge this issue



FULL AUDIT REPORT

GAS-01: Use `selfbalance()` instead of `address(this).balance`

Vulnerability Detail	Severity	Location	Category	Status
Use `selfbalance()` instead of `address(this).balance`	-	Check on finding	Gas Optimization	Acknowledge

Finding:

File: Tokens/JSRVGovernance.sol

```

510:         require(profitShare <= address(this).balance, "Not enough funds to
withdraw");

610:         require(address(this).balance > _totalAvailable, "You have no excesses in
here");

611:         uint256 balance = address(this).balance - _totalAvailable;

```

Recommendation:

Use assembly when getting a contract's balance of ETH.



You can use `selfbalance()` instead of `address(this).balance` when getting your contract's balance of ETH to save gas.

Additionally, you can use `balance(address)` instead of `address.balance()` when getting an external contract's balance of ETH.

Saves 15 gas when checking internal balance, 6 for external

Alleviation:

Jeti team has already Acknowledge this issue

FULL AUDIT REPORT

GAS-02: Use assembly to check for `address(0)

Vulnerability Detail	Severity	Location	Category	Status
Use assembly to check for `address(0)	-	Check on finding	Gas Optimization	Resolved

Finding:

```
244:         require(owner != address(0), "ERC20: approve from the zero address");  
245:         require(spender != address(0), "ERC20: approve to the zero address");  
...
```

Recommendation:

Saves 6 gas per instance

Instances (2):

Alleviation:

Jeti team has already Resolved this issue



FULL AUDIT REPORT

GAS-03: `array[index] += amount` is cheaper than `array[index] = array[index] + amount` (or related variants)

Vulnerability Detail	Severity	Location	Category	Status
`array[index] += amount` is cheaper than `array[index] = array[index] + amount` (or related variants)	-	Check on finding	Gas Optimization	Resolved

Finding:

File: Tokens/JSRVGovernance.sol

```

142:         _totalSoldTokens[1] = _totalSoldTokens[1] + _tokenFee;

260:         _tOwned[recipient] = _tOwned[recipient] + amount;

261:         _tOwned[msg.sender] = _tOwned[msg.sender] - amount;

284:         _tOwned[recipient] = _tOwned[recipient] + amount;

285:         _tOwned[sender] = _tOwned[sender] - amount;

316:         _tOwned[msg.sender] = _tOwned[msg.sender] + (roundAmount[0] +
roundAmount[1] + roundAmount[2]);

317:         _tOwned[address(this)] = _tOwned[address(this)] - (roundAmount[0] +
roundAmount[1] + roundAmount[2]);

321:         _totalSoldTokens[purchaseRound] = _totalSoldTokens[purchaseRound] +
(roundAmount[0] + roundAmount[1] + roundAmount[2]);

337:         _tOwned[msg.sender] = _tOwned[msg.sender] + _amount;

338:         _tOwned[address(this)] = _tOwned[address(this)] - _amount;

346:         _totalSoldTokens[purchaseRound] = _totalSoldTokens[purchaseRound] +
_amount;

498:         _redeemedProfitShare[i] = _redeemedProfitShare[i] +
tempProfitShareValue;

```

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```
528:                _availableProfitShare[i] = _availableProfitShare[i] +  
depositedAmount;  
  
    ``
```

Recommendation:

When updating a value in an array with arithmetic, using ``array[index] += amount`` is cheaper than ``array[index] = array[index] + amount``.

This is because you avoid an additional ``mload`` when the array is stored in memory, and an ``sload`` when the array is stored in storage.

This can be applied for any arithmetic operation including ``+=``, ``-=``, ``/=``, ``*=``, ``^=``, ``&=``, ``%=``, ``<<=``, ``>>=``, and ``>>>=``.

This optimization can be particularly significant if the pattern occurs during a loop.

Saves 28 gas for a storage array, 38 for a memory array

Alleviation:

Jeti team has already Resolved this issue



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GAS-04: Use Custom Errors

Vulnerability Detail	Severity	Location	Category	Status
Use Custom Errors	-	Check on finding	Gas Optimization	Resolved

Finding:

File: Blacklist.sol

```
34:         require(_blacklistAdminsContracts[msg.sender][_contract] == 1 ||
msg.sender == admin, "You need to be an admin to the contract you are blacklisting
for");
```

```
35:         require(_type <= 3, "Invalid blacklist code");
```

```
76:         require(blacklist.blacklist_type != BlacklistType.PERMANENT, "You are
permanently banned");
```

```
89:         require(_blacklistAdminsContracts[msg.sender][_contract] == 1 ||
msg.sender == admin, "You need to be an admin to the contract you are blacklisting
for");
```

```
...
```

File: JSRVGovernanceFactory.sol

```
28:         require(msg.value >= flatFee, "Flat fee");
```

```
63:         require(_newTokenFee <= 100, "Trying to set the fee to high");
```

```
77:         require(limits[3] > block.timestamp, "must start after current time");
```

```
78:         require(limits[4] > limits[3], "start must be after cutoff");
```

```
79:         require(type_ == 1 || type_ == 0, "You must select they proper type");
```

```
...
```

File: Tokens/JSRVGovernance.sol

```
106:         require(threshold_[0] + threshold_[1] + threshold_[2] == totalSupply_,
"Invalid threshold amounts");
```

```
220:         require(_allowances[_msgSender()][spender]>0, "ERC20: decreased allowance
below zero");
```

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```
244:         require(owner != address(0), "ERC20: approve from the zero address");

245:         require(spender != address(0), "ERC20: approve to the zero address");

258:         require((amount + balanceOf(recipient) <= _maxHold && recipient !=
address(this)) || recipient == address(this), "You are trying to hold too many
tokens");

276:         require(_allowances[sender][_msgSender()] > 0, "ERC20: transfer amount
exceeds allowance");

277:         require(amount + balanceOf(recipient) <= _maxHold, "You are trying to
hold too many tokens");

296:         require(_totalSold < _totalSupply, "All sold out");

297:         require((_totalSold + _amount) <= _totalSupply, "Trying to mint too many
tokens");

298:         require(_amount + balanceOf(msg.sender) <= _maxHold, "You are trying to
hold too many tokens");

299:         require(_amount >= _minPurchase && _amount <= _maxPurchase, "You need to
buy the right amounts");

308:         require(msg.value >= (roundFee[0] + roundFee[1] + roundFee[2]), "Not
enough value added");

331:         require(_totalSold >= _totalSupply, "Recycle not yet available");

332:         require(balanceOf(address(this)) > 0, "There are no tokens to recycle");

333:         require(recycleAllowed, "Recycling of tokens not allowed");

334:         require(msg.value >= _amount / _recycleRate, "You need to send enough");

335:         require(_amount + balanceOf(msg.sender) <= _maxHold, "You are trying to
hold too many tokens");

419:         require(balanceOf(msg.sender) > 0, "You have no tokens");

421:         require(currentRound > 0 && _holderLastRedeemed[msg.sender] <=
(currentRound), "Nothing to claim");

461:         require(balanceOf(msg.sender) > 0, "You have no tokens");
```

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```
463:         require(_holderLastRedeemed[msg.sender] <= (currentRound), "Nothing to  
claim");  
  
509:         require(redeemTokens <= balanceOf(msg.sender), "You don't have enough  
tokens");  
  
510:         require(profitShare <= address(this).balance, "Not enough funds to  
withdraw");  
  
610:         require(address(this).balance > _totalAvailable, "You have no excesses in  
here");
```

Recommendation:

[Source](<https://blog.soliditylang.org/2021/04/21/custom-errors/>)

Instead of using error strings, to reduce deployment and runtime cost, you should use Custom Errors. This would save both deployment and runtime cost.

Alleviation:

Jeti team has already Resolved this issue



FULL AUDIT REPORT

GAS-05: Use != 0 instead of > 0 for unsigned integer comparison

Vulnerability Detail	Severity	Location	Category	Status
Use != 0 instead of > 0 for unsigned integer comparison	-	Check on finding	Gas Optimization	Resolved

Finding:

File: JSRVGovernanceFactory.sol

```
49:     if (refund > 0) {
```

```
    }
```

File: Tokens/JSRVGovernance.sol

```
220:         require(_allowances[_msgSender()][spender]>0, "ERC20: decreased allowance below zero");
```

```
276:         require(_allowances[sender][_msgSender()] > 0, "ERC20: transfer amount exceeds allowance");
```

```
332:         require(balanceOf(address(this)) > 0, "There are no tokens to recycle");
```

```
395:         if(addAmount > 0){
```

```
401:         if(remain > 0){
```

```
419:         require(balanceOf(msg.sender) > 0, "You have no tokens");
```

```
421:         require(currentRound > 0 && _holderLastRedeemed[msg.sender] <= (currentRound), "Nothing to claim");
```

```
432:         if(i>0 && holder._tokens > 0){
```

```
432:         if(i>0 && holder._tokens > 0){
```

```
433:             if(_availableProfitShare[i] - _redeemedProfitShare[i] > 0){
```

```
434:                 if(_totalSoldTokens[i] > 0 && holder._tokens > 0) {
```

```
434:                 if(_totalSoldTokens[i] > 0 && holder._tokens > 0) {
```

```
442:                 if(holder._tokens > 0) {
```

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```
461:         require(balanceOf(msg.sender) > 0, "You have no tokens");

477:         if(i>0 && holder._tokens > 0){

477:         if(i>0 && holder._tokens > 0){

478:             if(_availableProfitShare[i] - _redeemedProfitShare[i] > 0){

479:                 if(_totalSoldTokens[i] > 0 && holder._tokens > 0) {

479:                 if(_totalSoldTokens[i] > 0 && holder._tokens > 0) {

487:                 if(holder._tokens > 0) {

541:         if(depositedAmount > 0) {

...

```

Recommendation:

-

Alleviation:

Jeti team has already Resolved this issue



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SWC Findings

ID	Title	Scanning	Result
SWC-100	Function Default Visibility	Complete	No risk
SWC-101	Integer Overflow and Underflow	Complete	No risk
SWC-102	Outdated Compiler Version	Complete	No risk
SWC-103	Floating Pragma	Complete	No risk
SWC-104	Unchecked Call Return Value	Complete	No risk
SWC-105	Unprotected Ether Withdrawal	Complete	No risk
SWC-106	Unprotected SELFDESTRUCT Instruction	Complete	No risk
SWC-107	Reentrancy	Complete	No risk
SWC-108	State Variable Default Visibility	Complete	No risk
SWC-109	Uninitialized Storage Pointer	Complete	No risk
SWC-110	Assert Violation	Complete	No risk
SWC-111	Use of Deprecated Solidity Functions	Complete	No risk
SWC-112	Delegatecall to Untrusted Callee	Complete	No risk
SWC-113	DoS with Failed Call	Complete	No risk
SWC-114	Transaction Order Dependence	Complete	No risk
SWC-115	Authorization through tx.origin	Complete	No risk

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SWC-116	Block values as a proxy for time	Complete	Low
SWC-117	Signature Malleability	Complete	No risk
SWC-118	Incorrect Constructor Name	Complete	No risk
SWC-119	Shadowing State Variables	Complete	No risk
SWC-120	Weak Sources of Randomness from Chain Attributes	Complete	No risk
SWC-121	Missing Protection against Signature Replay Attacks	Complete	No risk
SWC-122	Lack of Proper Signature Verification	Complete	No risk
SWC-123	Requirement Violation	Complete	No risk
SWC-124	Write to Arbitrary Storage Location	Complete	No risk
SWC-125	Incorrect Inheritance Order	Complete	No risk
SWC-126	Insufficient Gas Griefing	Complete	No risk
SWC-127	Arbitrary Jump with Function Type Variable	Complete	No risk
SWC-128	DoS With Block Gas Limit	Complete	No risk
SWC-129	Typographical Error	Complete	No risk
SWC-130	Right-To-Left-Override control character (U+202E)	Complete	No risk
SWC-131	Presence of unused variables	Complete	No risk
SWC-132	Unexpected Ether balance	Complete	No risk

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SWC-133	Hash Collisions With Multiple Variable Length Arguments	Complete	No risk
SWC-134	Message call with hardcoded gas amount	Complete	No risk
SWC-135	Code With No Effects	Complete	No risk
SWC-136	Unencrypted Private Data On-Chain	Complete	No risk



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Visibility, Mutability, Modifier function testing

Components


 Contracts	 Libraries	 Interfaces	 Abstract
3	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.





 Public	 Payable			
54	6			
External	Internal	Private	Pure	View
10	39	3	0	22







StateVariables

Total	 Public
48	34



Capabilities

Solidity Versions observed	 Experimental Features	 Can Receive Funds	 Uses Assembly	 Has Destroyable Contracts
0.8.17 =0.8.17		yes		

 Transfers ETH	 Low-Level Calls	 Delegate Call	 Uses Hash Functions	 ECRECOVER	 New/Create/Create2
yes					yes → NewContract:JSRVGo vernanceToken



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 TryCatch	Σ Unchecked



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Contracts Description Table

Contract	Type	Bases		
L	Function Name	Visibility	Mutability	Modifiers
BaseToken	Implementation			
iJSRVGovernanceFactory	Interface			
L	_getBlacklist	External !		NO !
L	_getAdmin	External !		NO !
JSRVGovernanceToken	Implementation	IERC20, Ownable, BaseToken, Pausable, ReentrancyGuard		
L		External !	⚠	NO !
L		Public !	⚠	NO !
L	name	Public !		NO !
L	symbol	Public !		NO !
L	decimals	Public !		NO !
L	totalSupply	Public !		NO !
L	balanceOf	Public !		NO !
L	addOwner	Public !	🔴	onlyOwner
L	removeOwner	Public !	🔴	onlyOwner
L	changeFeeTo	Public !	🔴	onlyOwner
L	toggleRecycle	Public !	🔴	onlyOwner
L	toggleAdminSigner	Public !	🔴	isAdmin

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Contract	Type	Bases		
L	pause	Public !		validOwner
L	unpause	Public !		validOwner
L	allowance	Public !		whenNotPa used
L	increaseAllowance	Public !		whenNotPa used
L	decreaseAllowance	Public !		whenNotPa used
L	approve	Public !		whenNotPa used
L	_approve	Private		
L	transfer	Public !		whenNotPa used
L	transferFrom	Public !		whenNotPa used
L	mint	Public !		whenNotPa used nonReentra nt
L	recycleMint	Public !		whenNotPa used nonReentra nt
L	getRates	Internal		
L	getCurrentRound	Public !		NO !
L	getCurrentPurchase Round	Public !		NO !
L	updateData	Internal		
L	calcProfitShareClai m	Public !		NO !
L	redeemProfitShare	Public !		NO !

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Contract	Type	Bases		
L	depositProfitShare	Public !		onlyOwner
L	refundExcessiveFee	Internal		
L	setNewMaxHold	Public !		validOwner
L	readHolderData	Public !		NO !
L	availableFunds	Public !		validOwner
L	withdrawFunds	Public !		onlyOwner
L	createTransaction	Private		notOpen
L	signTransaction	Public !		validOwner txExists notExecuted notConfirmed
L	_withdrawFunds	Private		
Blacklist	Implementation	Ownable		
L	setBlacklist	Public !		NO !
L	blacklistTimeLeft	Public !		NO !
L	resetBlacklist	Public !		NO !
L	deleteBlacklist	Public !		NO !
L	getBlacklist	External !		NO !
L	getBlacklistType	External !		NO !
L	getBlacklistDetails	External !		NO !
L	addBlacklistAdmins	Public !		onlyOwner
L	removeBlacklistAdmins	Public !		onlyOwner
L	setAdmin	Public !		onlyOwner

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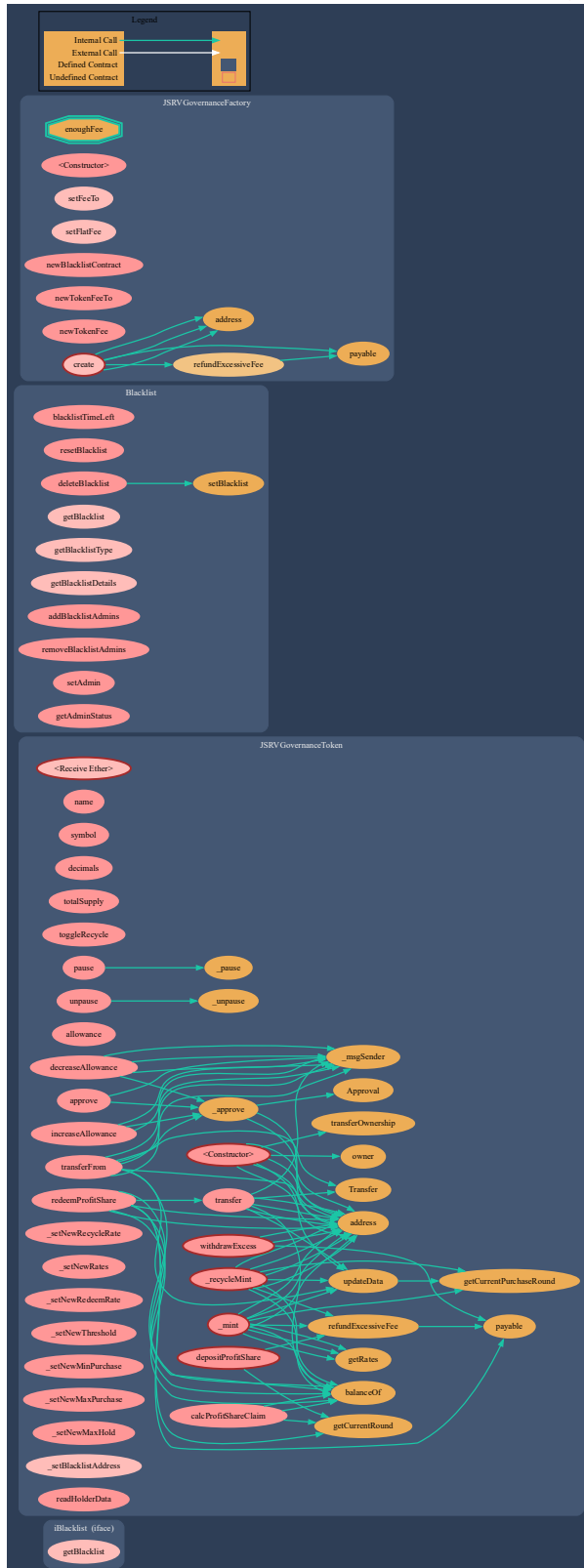
Contract	Type	Bases		
L	getAdminStatus	Public !		NO !
iBlacklist	Interface			
L	getBlacklist	External !		NO !
JSRVGovernanceFactory	Implementation	ReentrancyGuard, Ownable		
L		Public !	🔴	NO !
L	setFeeTo	External !	🔴	onlyOwner
L	setFlatFee	External !	🔴	onlyOwner
L	refundExcessiveFee	Internal 🗝️	🔴	
L	newBlacklistContract	Public !	🔴	onlyOwner
L	newTokenFeeTo	Public !	🔴	onlyOwner
L	newAdmin	Public !	🔴	onlyOwner
L	newTokenFee	Public !	🔴	onlyOwner
L	create	External !	💰	enoughFee nonReentrant
L	_getBlacklist	Public !		NO !
L	_getAdmin	Public !		NO !

Legend

Symbol	Meaning
🔴	Function can modify state
💰	Function is payable

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Inheritate Function Relation Graph



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About SECURI LAB

SECURI LAB is a group of cyber security experts providing cyber security consulting, smart contract security audits, and KYC services.



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**Why US? — High Reliability
Intense Inspection
Affordable Price**

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