

Smart Contract

Security Assessment

**For SupChain
Vesting
1 May 2024**



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Table of Contents

3 Disclaimer

4 Executive Summary

5 Overview

6 Findings Summary & Legend

7 Manual Review

- Issue Checking Status
- Audit Findings
- Functional Test Status
- Omitted Results

14 Automated Review

- Unified Model Language

16 Conclusion

DISCLAIMER

This independent audit has been conducted to verify the integrity of and highlight any vulnerabilities or errors, intentional or unintentional, that may be present in the codes that were provided for the scope of this audit. This audit report does not constitute agreement, acceptance or advocacy for the Project that was audited, and users relying on this audit report should not consider this as having any merit for financial advice in any shape, form or nature. The contracts audited do not account for any economic developments that may be pursued by the Project in question, and that the veracity of the findings thus presented in this report relate solely to the proficiency, competence, aptitude and discretion of our independent auditors, who make no guarantees nor assurance that the contracts are completely free of exploits, bugs, vulnerabilities or deprecation of technologies. Further, this audit report shall not be disclosed nor transmitted to any persons or parties on any objective, goal or justification without due written assent, acquiescence or approval by the auditor.

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Cryptocurrencies and any technologies by extension directly or indirectly related to cryptocurrencies are highly volatile and speculative by nature. All reasonable due diligence and safeguards may yet be insufficient, and users should exercise considerable caution when participating in any shape or form in this nascent industry.

The audit report has made all reasonable attempts to provide clear and articulate recommendations to the Project team with respect to the rectification, amendment and/or revision of any highlighted issues, vulnerabilities or exploits within the contracts provided. It is the sole responsibility of the Project team to sufficiently test and perform checks, ensuring that the contracts are functioning as intended, specifically that the functions therein contained within said contracts have the desired intended effects, functionalities and outcomes of the Project team.

Auditor retains full rights over all intellectual property (including expertise and new attack or exploit vectors) discovered during the audit process. Auditor is therefore allowed and expected to re-use this knowledge in subsequent audits and to inform existing projects that may have similar vulnerabilities. The auditor may, at its discretion, claim bug bounties from third-parties while doing

so.

Executive Summary

Severity	Found
● High	0
● Medium	0
● Low	0
● Informational	17
Total	17

We performed an independent technical audit to identify Smart Contracts uncertainties. This shall protect the code from illegitimate authorization attempts or external & internal threats of any type. This also ensures end-to-end proofing of the contract from frauds. The audit was performed semi-manually. We analyzed the Smart Contracts code line-by-line and used an automation tool to report any suspicious code.

The following tools were used:

- Truffle
- Hardhat
- Remix IDE
- Slither
- Sol2UML

Overview

This report has been prepared for SupChainVesting for the Ethereum Network. This audit provides a user-centered examination of the smart contracts to look for vulnerabilities, logic errors or other issues from both an internal and external perspective.

Summary

Project Name	SupChainVesting
Platform	Ethereum
Language	Solidity

Contracts Assessed

Name	Location
SUPC_Vesting	Not Published
IERC20	In SUPC_Vesting
Context	In SUPC_Vesting
Ownable	In SUPC_Vesting
IERC20Permit	In SUPC_Vesting
Address	In SUPC_Vesting
SafeERC20	In SUPC_Vesting

Findings Summary

Severity	Found
<div><div></div>High</div>	0
<div><div></div>Medium</div>	0
<div><div></div>Low</div>	0
<div><div></div>Informational</div>	17
Total	17

Classification of Issues

<div><div></div>High</div>	Exploits, vulnerabilities or errors that will certainly or probabilistically lead towards loss of funds, control, or impairment of the contract and its functions. Issues under this classification are recommended to be fixed with utmost urgency.
<div><div></div>Medium</div>	Bugs or issues that may be subject to exploit, though their impact is somewhat limited. Issues under this classification are recommended to be fixed as soon as possible.
<div><div></div>Low</div>	Effects are minimal in isolation and do not pose a significant danger to the project or its users. Issues under this classification are recommended to be fixed nonetheless.
<div><div></div>Informational</div>	Consistency, syntax or style best practices, Generally pose a negligible level of risk, if any.

Manual Review



Issues Checking Status

Issue Description	Checking Status
Compiler errors	PASS
Race conditions and Reentrancy. Cross-function race conditions.	PASS
Possible delays in data delivery.	PASS
Oracle calls.	PASS
Front running.	PASS
Timestamp dependence.	PASS
Integer Overflow and Underflow.	PASS
DoS with Revert.	PASS
DoS with block gas limit.	PASS
Methods execution permissions.	PASS
Economy model of the contract.	PASS
The impact of the exchange rate on the logic.	PASS
Private user data leaks.	PASS
Malicious Event log.	PASS
Scoping and Declarations.	PASS
Uninitialized storage pointers.	PASS

Arithmetic accuracy.	PASS
Design Logic.	PASS
Cross-function race conditions.	PASS
Safe Open Zeppelin contracts implementation and usage.	PASS
Fallback function security.	PASS

Functional Test Status

Function Name	Type/Return Type	Score
Context		
_contextSuffixLength	internal	PASS
_msgSender	internal	PASS
_msgData	internal	PASS
Ownable		
_checkOwner	internal	PASS
_transferOwnership	internal	PASS
constructor	internal	PASS
renounceOwnership	public	PASS
transferOwnership	public	PASS
owner	public	PASS
IERC20		
allowance	external	PASS
approve	external	PASS
balanceOf	external	PASS
totalSupply	external	PASS
transfer	external	PASS
transferFrom	external	PASS

SUPC_Vesting		
_releasableAmount	private	PASS
_vestedAmount	private	PASS
constructor	public	PASS
releaseToAddress	public	PASS
released	public	PASS
revoked	public	PASS
setBeneficiary	public	PASS
vestedAmount	public	PASS
SafeERC20		
_callOptionalReturn	private	PASS
_callOptionalReturnBool	private	PASS
forceApprove	internal	PASS
safeDecreaseAllowance	internal	PASS
safeIncreaseAllowance	internal	PASS
safeTransfer	internal	PASS
safeTransferFrom	internal	PASS
IERC20Permit		
DOMAIN_SEPARATOR	external	PASS
nonces	external	PASS
permit	external	PASS
Address		
_revert	private	PASS

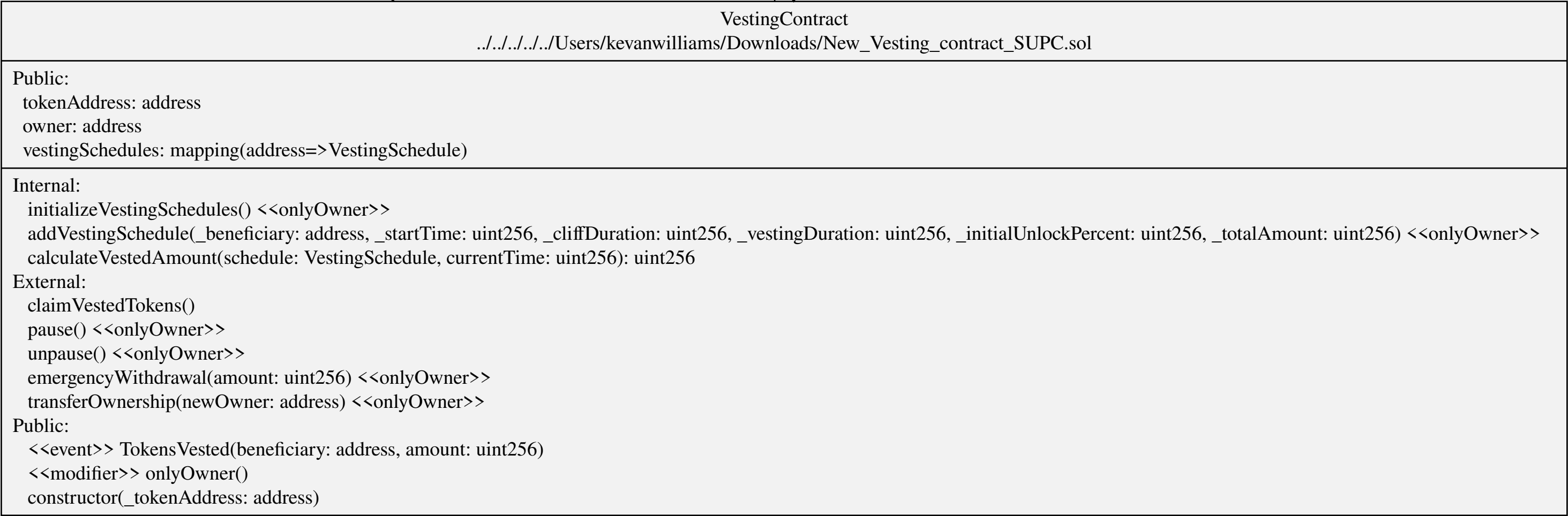
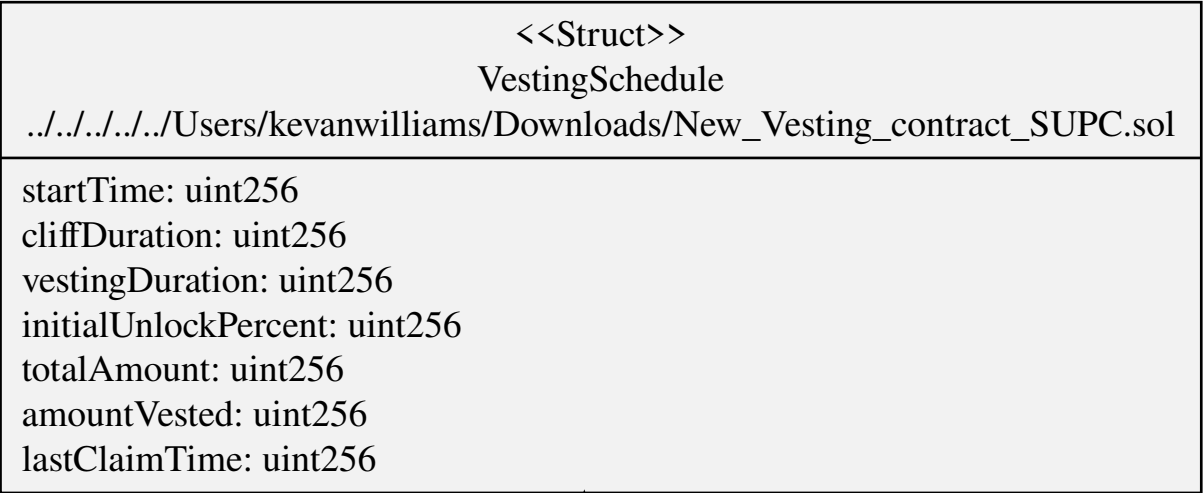
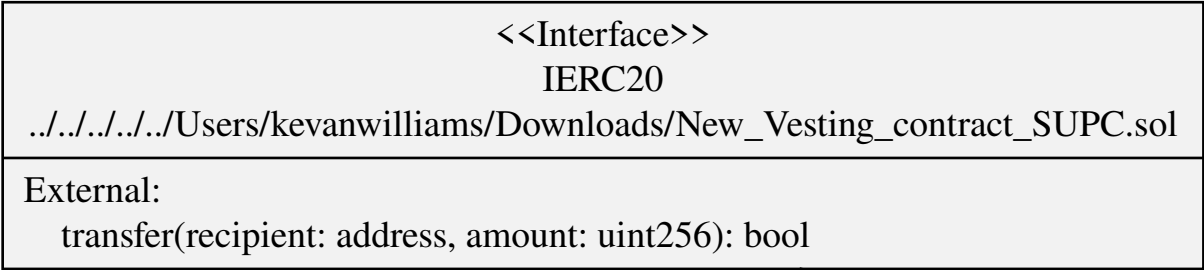
functionCall	internal	PASS
functionCallWithValue	internal	PASS
functionDelegateCall	internal	PASS
functionStaticCall	internal	PASS
sendValue	internal	PASS
verifyCallResult	internal	PASS
verifyCallResultFromTarget	internal	PASS

Omitted Results

Note: Any issues that have been omitted from this report have been deemed by the reviewing team as irrelevant, inapplicable, and/or negligible to the proper functioning of this contract. Thus, any omitted issues can be safely ignored.

Automated Review





Conclusion

The smart contracts reviewed in this audit contain no critical severity issues and all Medium to Low issues have either been corrected or acknowledged.

Please check the disclaimer above and note, the audit makes no statements or warranties on business model, investment attractiveness or code sustainability. The report is provided for the only contract mentioned in the report and does not include any other potential contracts deployed by Owner.



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