



AUDIT REPORT





January 2025

For



**GAME DEV
AGENT**

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Executive Summary

Project Name	Game Dev Agent
Project URL	https://www.gamedevagent.ai/
Overview	<p>GamedevAgent introduces a specialized ERC20 token, AIDEV, aimed at the game development community. It leverages advanced Solidity features for efficient token management, including minting, burning, and transfers with enhanced security measures. A unique aspect is its integration with Permit2 for infinite allowance, simplifying token spending processes and improving user experience in DeFi transactions.</p>
Audit Scope	<p>The scope of this Audit was to analyze the Game Dev Agent Token Smart Contracts for quality, security, and correctness.</p>
Contracts in Scope	https://basescan.org/token/0x94d900479055efadf53b4e3b21f2939a6601cd61#code
Language	Solidity
Blockchain	Base
Method	Manual Analysis, Functional Testing, Automated Testing
Review 1	31st January 2025



Number of Issues per Severity



High	0 (0%)
Medium	0 (0%)
Low	0 (0%)
Informational	0 (0%)

		Severity			
		High	Medium	Low	Informational
Issues	Open	0	0	0	0
	Resolved	0	0	0	0
	Acknowledged	0	0	0	0
	Partially Resolved	0	0	0	0



Checked Vulnerabilities

✓ Access Management

✓ Arbitrary write to storage

✓ Centralization of control

✓ Ether theft

✓ Improper or missing events

✓ Logical issues and flaws

✓ Arithmetic Computations
Correctness

✓ Race conditions/front running

✓ SWC Registry

✓ Re-entrancy

✓ Timestamp Dependence

✓ Gas Limit and Loops

✓ Exception Disorder

✓ Gasless Send

✓ Use of tx.origin

✓ Malicious libraries

✓ Compiler version not fixed

✓ Address hardcoded

✓ Divide before multiply

✓ Integer overflow/underflow

✓ ERC's conformance

✓ Dangerous strict equalities

✓ Tautology or contradiction

✓ Return values of low-level calls



Checked Vulnerabilities

✓ Missing Zero Address Validation

✓ Upgradeable safety

✓ Private modifier

✓ Using throw

✓ Revert/require functions

✓ Using inline assembly

✓ Multiple Sends

✓ Style guide violation

✓ Using suicide

✓ Unsafe type inference

✓ Using delegatecall

✓ Implicit visibility level



Techniques and Methods

Throughout the audit of smart contracts, care was taken to ensure:

- The overall quality of code
- Use of best practices
- Code documentation and comments, match logic and expected behavior
- Token distribution and calculations are as per the intended behavior mentioned in the whitepaper
- Implementation of ERC standards
- Efficient use of gas
- Code is safe from re-entrancy and other vulnerabilities

The following techniques, methods, and tools were used to review all the smart contracts:

Structural Analysis

In this step, we have analyzed the design patterns and structure of smart contracts. A thorough check was done to ensure the smart contract is structured in a way that will not result in future problems.

Static Analysis

A static Analysis of Smart Contracts was done to identify contract vulnerabilities. In this step, a series of automated tools are used to test the security of smart contracts.



Techniques and Methods

Code Review / Manual Analysis

Manual Analysis or review of code was done to identify new vulnerabilities or verify the vulnerabilities found during the static analysis. Contracts were completely manually analyzed, their logic was checked and compared with the one described in the whitepaper. Besides, the results of the automated analysis were manually verified.

Gas Consumption

In this step, we have checked the behavior of smart contracts in production. Checks were done to know how much gas gets consumed and the possibilities of optimization of code to reduce gas consumption.

Tools and Platforms Used for Audit

Remix IDE, Foundry, Solhint, Mythril, Slither, Solidity Statistic Analysis.



Types of Severity

Every issue in this report has been assigned to a severity level. There are four levels of severity, and each of them has been explained below.

High Severity Issues

A high severity issue or vulnerability means that your smart contract can be exploited. Issues on this level are critical to the smart contract's performance or functionality, and we recommend these issues be fixed before moving to a live environment.

Medium Severity Issues

The issues marked as medium severity usually arise because of errors and deficiencies in the smart contract code. Issues on this level could potentially bring problems, and they should still be fixed.

Low Severity Issues

Low-level severity issues can cause minor impact and are just warnings that can remain unfixed for now. It would be better to fix these issues at some point in the future.

Informational

These are four severity issues that indicate an improvement request, a general question, a cosmetic or documentation error, or a request for information. There is low-to-no impact.



Types of Issues

Open

Security vulnerabilities identified that must be resolved and are currently unresolved.

Resolved

These are the issues identified in the initial audit and have been successfully fixed.

Acknowledged

Vulnerabilities which have been acknowledged but are yet to be resolved.

Partially Resolved

Considerable efforts have been invested to reduce the risk/impact of the security issue, but are not completely resolved.



High Severity Issues

No Issues Found.

Medium Severity Issues

No Issues Found.

Low Severity Issues

No Issues Found.

Informational Issues

No Issues Found.



Closing Summary

In this report, we have considered the security of Game Dev Agent Token Contract. We performed our audit according to the procedure described above.

Code Looks Good, No Issues Found.

Disclaimer

QuillAudits Smart contract security audit provides services to help identify and mitigate potential security risks in Game Dev Agent Token Contract. However, it is important to understand that no security audit can guarantee complete protection against all possible security threats. QuillAudits audit reports are based on the information provided to us at the time of the audit, and we cannot guarantee the accuracy or completeness of this information. Additionally, the security landscape is constantly evolving, and new security threats may emerge after the audit has been completed.

Therefore, it is recommended that multiple audits and bug bounty programs be conducted to ensure the ongoing security of Game Dev Agent Token Contract. One audit is not enough to guarantee complete protection against all possible security threats. It is important to implement proper risk management strategies and stay vigilant in monitoring your smart contracts for potential security risks.

QuillAudits cannot be held liable for any security breaches or losses that may occur subsequent to and despite using our audit services. It is the responsibility of Game Dev Agent Team to implement the recommendations provided in our audit reports and to take appropriate steps to mitigate potential security risks.



About QuillAudits

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Projects Secured

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For



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