



4th05

IQAI

Security Review Report

7 February 2025

Security Review Report

4th05

February 7, 2025

Table of Contents

- Table of Contents
- Protocol Summary
- Disclaimer
- Risk Classification
- Overview
- Scope
- Issues found
- Findings
 - [I1] Useless transaction consuming gas fee

Protocol Summary

IQ AI built the Agent Tokenization Platform (ATP) to empower developers to launch tokenized AI agents that can own and manage digital and physical assets—from cryptocurrencies and DeFi strategies to robotics and IoT automation.

Disclaimer

A smart contract security review can never verify the complete absence of vulnerabilities. This is a time, resource and expertise bound effort where I try to find as many vulnerabilities as possible. I can not guarantee 100% security after the review or even if the review will find any problems with your smart contracts. Subsequent security reviews, bug bounty programs and on-chain monitoring are strongly recommended.

Risk Classification

		Impact		
		High	Medium	Low
Likelihood	High	H	H/M	M
	Medium	H/M	M	M/L
	Low	M	M/L	L

Overview

Contest platform	Code4rena
LOC	778
Language	Solidity
Commit	b16b866d4c8d3e4a69b37a02c4e396d4b294537e
Previous audits	4naly3er

Scope

- /src/AIToken.sol
- /src/Agent.sol
- /src/AgentFactory.sol
- /src/AgentRouter.sol
- /src/BootstrapPool.sol
- /src/LiquidityManager.sol
- /src/TokenGovernor.sol

Issues found

Severity	Number of issues found
High	0
Medium	0
Low	0
Info	1

Findings

[I1] Useless transaction consuming gas fee

Relevant GitHub Links

<https://github.com/code-423n4/2025-01-iq-ai/blob/main/src/AgentFactory.sol#L116>

Finding description

```
1  @>    if (mintToDAOAmount > 0) token.safeTransfer(address(this),  
           mintToDAOAmount);  
2         if (mintToAgentAmount > 0) token.safeTransfer(address(agent),  
           mintToAgentAmount);  
3         token.safeTransfer(address(manager), initialLiquidity);  
4         manager.initializeBootstrapPool();
```

The transfer of the `mintToDAOAmount` is from the `factoryAgent` to the `factoryAgent` itself so it could be removed to use this way less gas in the `createAgent` function.