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# CODE SECURITY ASSESSMENT

SMART GAME

# **Overview**

### **Project Summary**

Name: Smart Game

• Version: 1.0

Platform: EVM-compatible chains

Language: Solidity

• Audit Range: (Smart Game) Context.sol; ERC20.sol; IERC20.sol;

IERC20Metadata.sol; SmartERC20.sol

# **Project Dashboard**

### **Application Summary**

Name	Smart Game	
Version	v1	
Туре	Solidity	
Dates	Nov 07 2022	
Logs	Nov 07 2022	

### **Vulnerability Summary**

Total High-Severity issues	0
Total Medium-Severity issues	0
Total Low-Severity issues	0
Total informational issues	2
Total	2

#### **Contact**

E-mail: support@salusec.io



# **Risk Level Description**

High Risk	The issue puts a large number of users' sensitive information at risk, or is reasonably likely to lead to catastrophic impact for clients' reputations or serious financial implications for clients and users.
Medium Risk	The issue puts a subset of users' sensitive information at risk, would be detrimental to the client's reputation if exploited, or is reasonably likely to lead to a moderate financial impact.
Low Risk	The risk is relatively small and could not be exploited on a recurring basis, or is a risk that the client has indicated is low impact in view of the client's business circumstances.
Informational	The issue does not pose an immediate risk, but is relevant to security best practices or defense in depth.



# **Content**

Introduction	4
1.1 About SALUS	4
1.2 Audit Breakdown	4
1.3 Disclaimer	4
Findings	5
2.1 Summary of Findings	5
2.2 Notable Findings	6
2.3 Informational Findings	7
1. Floating compiler version	7
2. Latest OpenZepplin version	8



# Introduction

#### 1.1 About SALUS

At Salus Security, we are in the business of trust.

We are dedicated to tackling the toughest security challenges facing the industry today. By building foundational trust in technology and infrastructure through security, we help clients to lead their respective industries and unlock their full Web3 potential.

Our team of security experts employ industry-leading proof-of-concept (PoC) methodology for demonstrating smart contract vulnerabilities, coupled with advanced red teaming capabilities and a stereoscopic vulnerability detection service, to deliver comprehensive security assessments that allow clients to stay ahead of the curve.

In addition to smart contract audits and red teaming, our Rapid Detection Service for smart contracts aims to make security accessible to all. This high calibre, yet cost-efficient, security tool has been designed to support a wide range of business needs including investment due diligence, security and code quality assessments, and code optimisation.

We are reachable on Telegram (https://t.me/salusec), Twitter (https://twitter.com/salus\_sec), or Email (support@salusec.io).

#### 1.2 Audit Breakdown

The objective was to evaluate the repository for security-related issues, code quality, and adherence to specifications and best practices. Possible issues we looked for included (but are not limited to):

- Risky external calls
- Integer overflow/underflow
- Transaction-ordering dependence
- Timestamp dependence
- Access control
- Call stack limits and mishandled exceptions
- Number rounding errors
- Centralization of power
- · Logical oversights and denial of service
- Business logic specification
- Code clones, functionality duplication

#### 1.3 Disclaimer

Note that this security audit is not designed to replace functional tests required before any software release and does not give any warranties on finding all possible security issues with the given smart contract(s) or blockchain software, i.e., the evaluation result does not guarantee the nonexistence of any further findings of security issues.



# **Findings**

# 2.1 Summary of Findings

ID	Title	Severity	Category	Status
1	Floating compiler version	Informational	Coding Practice	Unresolved
2	Latest OpenZepplin version	Informational	Coding Practice	Unresolved



# 2.2 Notable Findings

Significant flaws that impact system confidentiality, integrity, or availability are listed below.

No significant issues are found.



# 2.3 Informational Findings

1. Floating compiler version		
Severity: Informational	Category: Coding Practice	
Target: - all		

### **Description**

It is recommended to use the up-to-date stable compiler version

```
Original code:

pragma solidity ^0.8.0;

Recommended version:

pragma solidity 0.8.17
```



## 2. Latest OpenZepplin version

Severity: Informational Category: Coding Practice

Target:

- ERC20.sol

#### **Description**

It is recommended to use the up-to-date OpenZeppelin version

Original code:

OpenZeppelin Contracts (last updated v4.5.0)

Recommended version:

OpenZeppelin Contracts (last updated v4.7.0)

