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BUILD TRUST IN YOUR  
PROJECT WITH  
OUR AUDIT



11 JULY 2023

SECUREBE.COM



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# Summary

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**This report has been prepared for XGames to discover issues and vulnerabilities in the source code of the XGames project as well as any contract dependencies that were not part of an officially recognized library. A comprehensive examination has been performed, utilising Static Analysis and Manual Review techniques.**

**The auditing process pays special attention to the following considerations:**

- **Testing the smart contracts against both common and uncommon attack vectors.**
- **Assessing the codebase to ensure compliance with current best practices and industry standards.**
- **Ensuring contract logic meets the specifications and intentions of the client.**
- **Cross referencing contract structure and implementation against similar smart contracts produced by industry leaders.**
- **Thorough line-by-line manual review of the entire codebase by industry experts.**

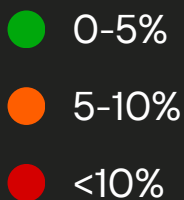
**The security assessment resulted in findings that ranged from Medium to informational. We recommend addressing these findings to ensure a high level of security standards and industry practices. We suggest recommendations that could better serve the project from the security perspective:**

- **Enhance general coding practices for better structures of source codes;**
- **Add enough unit tests to cover the possible use cases;**
- **Provide more comments per each function for readability, especially contracts that are verified in public;**
- **Provide more transparency on privileged activities once the protocol is live.**



## Overview

PROJECT NAME	XGames (XG)
ADDRESS	0xd05b51bF612e1B8F987557de03844bA65c8455E5
NETWORK	Ethereum
TOTAL SUPPLY	100,000,000 XG
COMPILER VER.	v0.8.19+commit.7dd6d404
LANGUAGE	Solidity



Optimization With 200 Runs

## Wallets

OWNER	0x7bD3BDed9C801709ebF208733d0014A4f655DAeF
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## Vulnerability Summary

SECURITY SCORING: 100 / 100



# Vulnerability Check

## Code Review

DESIGN LOGIC	PASSED
COMPILER WARNINGS	PASSED
PRIVATE USER DATA LEAKS	PASSED
TIMESTAMP DEPENDENCE	PASSED
INTEGER OVERFLOW AND UNDERFLOW	PASSED
RACE CONDITION REENTRANCY	PASSED
POSSIBLE DELAYS IN DATA DELIVERY	PASSED
ORACLE CALLS	PASSED
FRONT RUNNING	PASSED
DOS WITH BLOCK GAS LIMIT	PASSED
DOS WITH REVERT	PASSED
METHODS EXECUTION PERMISSIONS	PASSED
ECONOMY MODEL	PASSED
IMPACT OF THE EXCHANGE RATE	PASSED
MALICIOUS EVENT LOG	PASSED
SCOPING AND DECLARATIONS	PASSED
UNINITIALIZED STORAGE POINTERS	PASSED
ARITHMETIC ACCURACY	PASSED
CROSS FUNCTION RACE CONDITIONS	PASSED
SAFE ZEPPELIN MODULE	PASSED
FALLBACK FUNCTION SECURITY	PASSED



# Vulnerability Check

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## Function Review

BUSINESS LOGICS REVIEW FUNCTIONALITY CHECKS	PASSED
ACCESS CONTROL & AUTHORIZATION	PASSED
ESCROW MANIPULATION	PASSED
TOKEN SUPPLY MANIPULATION	PASSED
ASSETS INTEGRITY	PASSED
USER BALANCES MANIPULATION	PASSED
DATA CONSISTENCY MANIPULATION	PASSED
KILL - SWITCH MECHANISM OPERATION TRAILS & EVENT GENERATION	PASSED



## Owner Privileges

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# CONCLUSION

- |  |   |
|--|---|
| <input checked="" type="checkbox"/> Owner can't mint tokens        | <input checked="" type="checkbox"/> Owner can't stop the contract |
| <input checked="" type="checkbox"/> Owner can't limit transactions | <input checked="" type="checkbox"/> Owner can't stop trading      |
| <input checked="" type="checkbox"/> Owner can't set fees <25%      | <input checked="" type="checkbox"/> Owner can't block wallets     |