



**DEFENCERT**  
BLOCKCHAIN SECURITY

# Diamond Mine x100

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# Smart Contract Audit Report

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# Table of Contents

## Contents

- Disclaimer ..... 3
- 1. Overview ..... 4
  - 1.1 Summary ..... 4
  - 1.2 Findings Summary ..... 5
  - 1.3 DiamondMineX100 ..... 5
- 2 Findings ..... 6
  - 2.1 DiamondMineX100 ..... 6
    - 2.1.1 Privileged Roles ..... 6
    - 2.1.2 Issues & Recommendations ..... 6

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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 performs 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.

# 1. Overview

This report has been prepared for Diamond Mine X100 on the Polygon network. Defencert 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.

## 1.1 Summary

<b>Project Name</b>	Diamond Mine X100
<b>URL</b>	<a href="https://diamondminex100.com/">https://diamondminex100.com/</a>
<b>Platform</b>	Polygon
<b>Language</b>	Solidity

## Contracts Assessed

<b>Name</b>	<b>Contract</b>	<b>Live Code Match</b>
DiamondMineX100	0xD6c452b60A059392e52a4471A76A896098c2C9b7	Yes

## 1.2 Findings Summary

Severity	Found	Resolved	Partially Resolved	Acknowledged
High	0	0	0	0
Medium	0	0	0	0
Low	0	0	0	0
Informational	0	0	0	2
Total	0	0	0	2

Severity	Description
High	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.
Medium	Bugs or issues with 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.
Low	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.
Informational	Consistency, syntax or style best practices. Generally, pose a negligible level of risk, if any.

## 1.3 DiamondMineX100

ID	Severity	Summary
01	Informational	Missing Event emissions
02	Informational	Functions that could be declared external

# 2 Findings

## 2.1 DiamondMineX100

The Diamond Mine X100 smart contract provides the opportunity to invest any amount in MATIC in the contract and get daily profit on investment if the contract balance has enough funds for payment. All dividends are calculated at the moment of request and available for withdrawal anytime.

### 2.1.1 Privileged Roles

The following functions can be called by the owner of the contract:

- a) SeedMarket

### 2.1.2 Issues & Recommendations

<b>Issue #01</b>	Missing Event emissions
<b>Severity</b>	Informational
<b>Description</b>	There are several functions that change state variables, however, they do not emit events to pass the changes out of chain. Not emitting an event from functions that impose changes to state variables could result in a lack of functionality often required for sound logic and functionality within external applications calling on smart contract functions.
<b>Recommendation</b>	We recommend emitting events for all essential state variables that are possible to be changed during runtime.

<b>Issue #02</b>	Functions that could be declared external
<b>Severity</b>	Informational
<b>Description</b>	Several functions are declared as public visibility, however, since they are never called by the contract they should be declared external. This is a gas optimization issue.
<b>Recommendation</b>	We recommend that functions that are never called by the contract to be declared as external to save gas.

