



Mar Exchange
Smart Contract Audit Report

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ThaiChain, Thailand
August 2nd, 2021

Disclaimer

This is a limited report on our findings based on our analysis, in accordance with good industry practice as at the date of this report, in relation to: (i) cybersecurity vulnerabilities and issues in the smart contract source code analysed, the details of which are set out in this report, (Source Code); and (ii) the Source Code compiling, deploying and performing the intended functions. In order to get a full view of our findings and the scope of our analysis, it is crucial for you to read the full report. While we have done our best in conducting our analysis and producing this report, it is important to note that you should not rely on this report and cannot claim against us on the basis of what it says or doesn't say, or how we produced it, and it is important for you to conduct your own independent investigations before making any decisions. We go into more detail on this in the disclaimer below – please make sure to read it in full.

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Document Properties

Client	Mar Exchange
Title	Smart Contract Audit Report
Contract Repository	https://github.com/mar-exchange/
Commit	4a6d74ca9c3f8c4d1da64d13b077c42c2eaeb8ff
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Approved By	Dom Charoenyos
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Introduction

Thai Chain was contracted by Mar Exchange to conduct an audit of smart contracts. The report presents the findings of the security assessment of the smart contracts and its code review conducted on August 2nd, 2021.

Scope

The scope of the project is smart contracts in the following address:

1. <https://github.com/mar-exchange/contracts/blob/canary/contracts/uniswapv2/UniswapV2Factory.sol>
2. <https://github.com/mar-exchange/contracts/blob/canary/contracts/uniswapv2/UniswapV2Pair.sol>
3. <https://github.com/mar-exchange/contracts/blob/canary/contracts/uniswapv2/UniswapV2Router02.sol>

Executive Summary

Mar Exchange is a decentralized exchange forked from [Uniswap V2](#) with the following modifications.

1. Change the contract version to 0.6.12 and do the necessary patching.
2. Add `migrator` member in `UniswapV2Factory` which can be set by `feeToSetter`.
3. Allow `migrator` to specify the amount of liquidity during the first mint in `UniswapV2Pair`. Disallow the first mint if `migrator` is set.

Our team performed an analysis of code functionality and manual audit. We found no issue during the audit.

Severity Definitions

Severity Level	Description
Critical	Critical vulnerabilities are usually straightforward to exploit and can lead to asset loss or data manipulations.
High	High-level vulnerabilities have a significant impact on smart contract execution, e.g., public access to crucial functions.
Medium	Medium-level vulnerabilities are important to fix; however, they can't lead to asset loss or data manipulations.
Low	Low-level vulnerabilities are mostly related to outdated, unused, etc. code snippets that can't have a significant impact on execution.
Lowest / Coding Style / Best Practice	Lowest-level vulnerabilities, code style violations, and info statements can't affect smart contract execution and can be ignored.

Findings

0 Total Issues

Audit Overview

Critical

No critical issues were found.

High

No critical issues were found.

Medium

No critical issues were found.

Low

No low issues were found.

Lowest / Coding Style / Best Practice

No issues found