



# MakerDAO: Rates Conv

## Security Review

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# 1 Introduction

## 1.1 About Cantina

Cantina is a security services marketplace that connects top security researchers and solutions with clients. Learn more at [cantina.xyz](https://cantina.xyz)

## 1.2 Disclaimer

Cantina Managed provides a detailed evaluation of the security posture of the code at a particular moment based on the information available at the time of the review. While Cantina Managed endeavors to identify and disclose all potential security issues, it cannot guarantee that every vulnerability will be detected or that the code will be entirely secure against all possible attacks. The assessment is conducted based on the specific commit and version of the code provided. Any subsequent modifications to the code may introduce new vulnerabilities that were absent during the initial review. Therefore, any changes made to the code require a new security review to ensure that the code remains secure. Please be advised that the Cantina Managed security review is not a replacement for continuous security measures such as penetration testing, vulnerability scanning, and regular code reviews.

## 1.3 Risk assessment

Severity	Description
<b>Critical</b>	<i>Must</i> fix as soon as possible (if already deployed).
<b>High</b>	Leads to a loss of a significant portion (>10%) of assets in the protocol, or significant harm to a majority of users.
<b>Medium</b>	Global losses <10% or losses to only a subset of users, but still unacceptable.
<b>Low</b>	Losses will be annoying but bearable. Applies to things like griefing attacks that can be easily repaired or even gas inefficiencies.
<b>Gas Optimization</b>	Suggestions around gas saving practices.
<b>Informational</b>	Suggestions around best practices or readability.

### 1.3.1 Severity Classification

The severity of security issues found during the security review is categorized based on the above table. Critical findings have a high likelihood of being exploited and must be addressed immediately. High findings are almost certain to occur, easy to perform, or not easy but highly incentivized thus must be fixed as soon as possible.

Medium findings are conditionally possible or incentivized but are still relatively likely to occur and should be addressed. Low findings a rare combination of circumstances to exploit, or offer little to no incentive to exploit but are recommended to be addressed.

Lastly, some findings might represent objective improvements that should be addressed but do not impact the project's overall security (Gas and Informational findings).

## 2 Security Review Summary

The Maker Protocol, also known as the Multi-Collateral Dai (MCD) system, allows users to generate Dai (a decentralized, unbiased, collateral-backed cryptocurrency soft-pegged to the US Dollar) by leveraging collateral assets approved by the Maker Governance, which is the community organized and operated process of managing the various aspects of the Maker Protocol.

From Mar 10th to Mar 21st the Cantina team conducted a review of [rates-conv](#) on commit hash [af1fc165](#) and determined that no issues were identified.

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