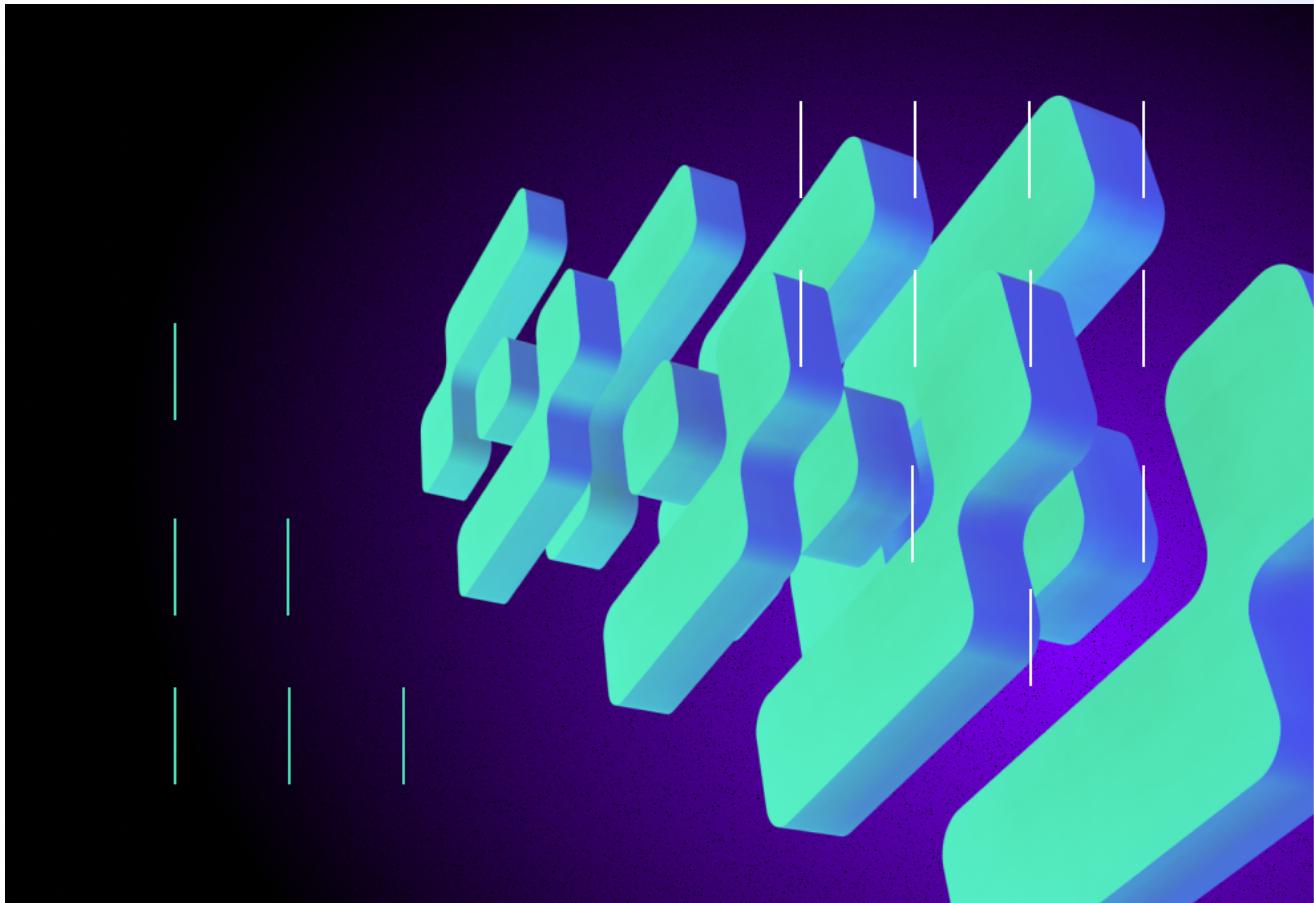


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Safe Token: Airdrop Contract Audit Summary



Andrea Nováková // AUDITS, ETHEREUM AUGUST 26, 2022



[Safe Token](#) engaged [Ackee Blockchain](#) to review and [audit](#) the Airdrop contract between **July 13 and 15, 2022**. The entire audit process was conducted with a total time commitment of **3 engineering days**. We now publish a summary of our results.

METHODOLOGY

We start by reviewing the specifications, sources, and instructions provided to us, which is essential to ensure we understand the project's size, scope, and functionality. This is followed by due diligence using the automated [Solidity](#) analysis tools and [Slither](#).

In addition to tool-based analysis, we continue with a detailed manual code review, which is the process of reading the source code line by line to identify potential vulnerabilities or code duplications. When the code review is complete, we run unit tests to ensure the system works as expected and potentially write missing unit or fuzzy tests. We also deploy the [contracts](#) locally and try to attack and break the system.

SCOPE

We audited commit [d997f13](#) of the [safe-global/safe-token](#) repository.

During the security review, **we paid particular attention to:**

- ensuring that no one would be able to claim any tokens than those intended;
- detecting possible reentrancies in the code;
- ensuring access controls are not too relaxed or too strict;
- looking for common issues such as data validation.

FINDINGS

Here we present our [findings](#).

Critical severity

No critical severity issues were found.

High severity

No high severity issues were found.

Medium severity

M1: The variable `redeemDeadline` can be set to the past

Low severity

No low severity issues were found.

Warning severity

No warning severity issues were found.

Informational severity

No informational severity issues were found.

CONCLUSION

Our review resulted in **1 medium severity finding**.

Generally, we can state that the contract is **very well written** and each line has its purpose. The project is nicely readable, **well documented** and has an extensive test suite.

After the audit, **we recommended Safe Token to:**

- address all reported issues.

Update: On August 25, 2022, Safe Token provided an updated codebase that addresses the reported issue. The updated commit was [c10da49](#). The issue was fixed by adding `require` statement into the constructor that enforces `redeemDeadline` to be set as the future date.

Ackee Blockchain's full *Airdrop contract* audit report with a more detailed description of all findings and recommendations can be found [here](#).

We were delighted to audit **Safe Token** and look forward to working with them again.

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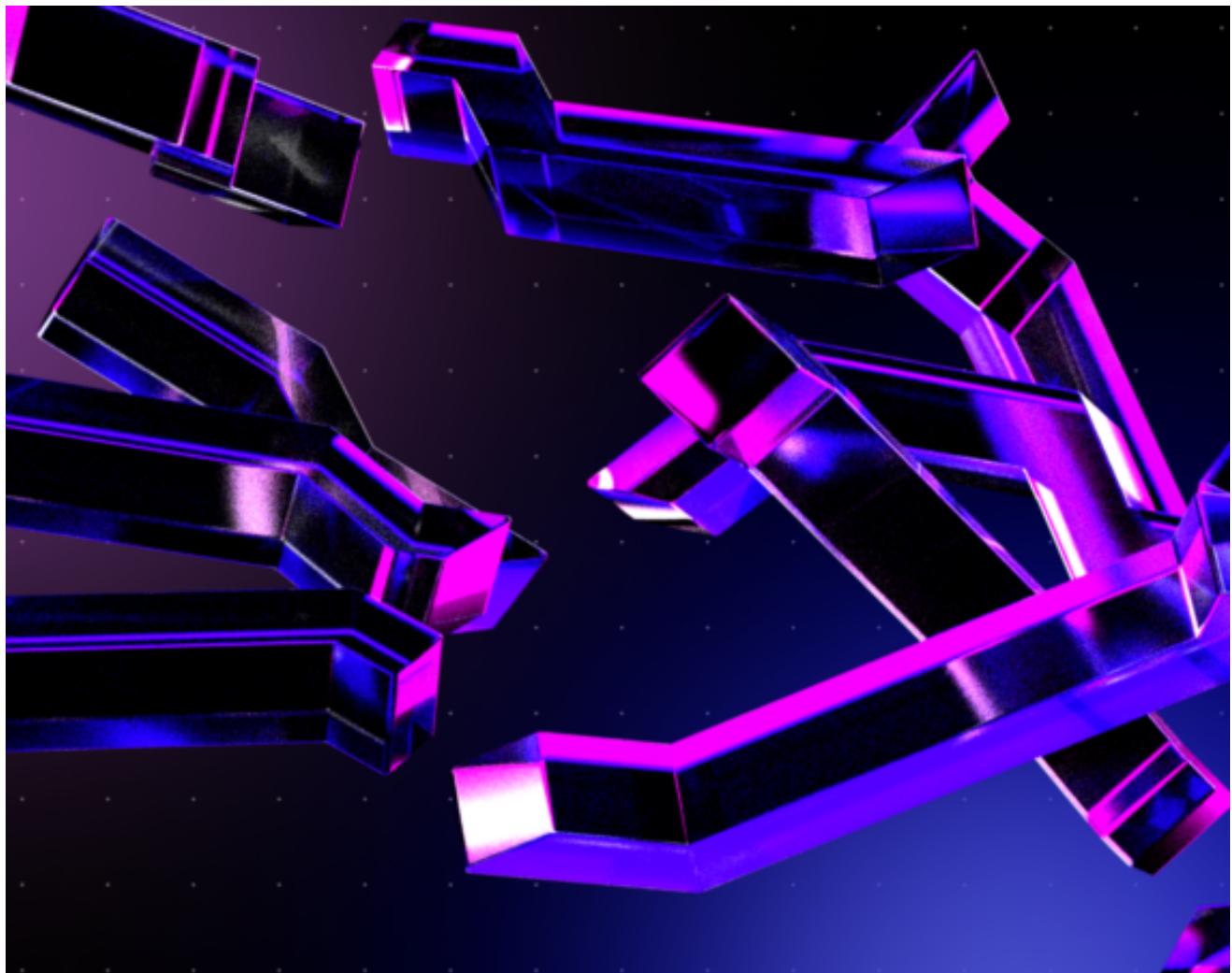


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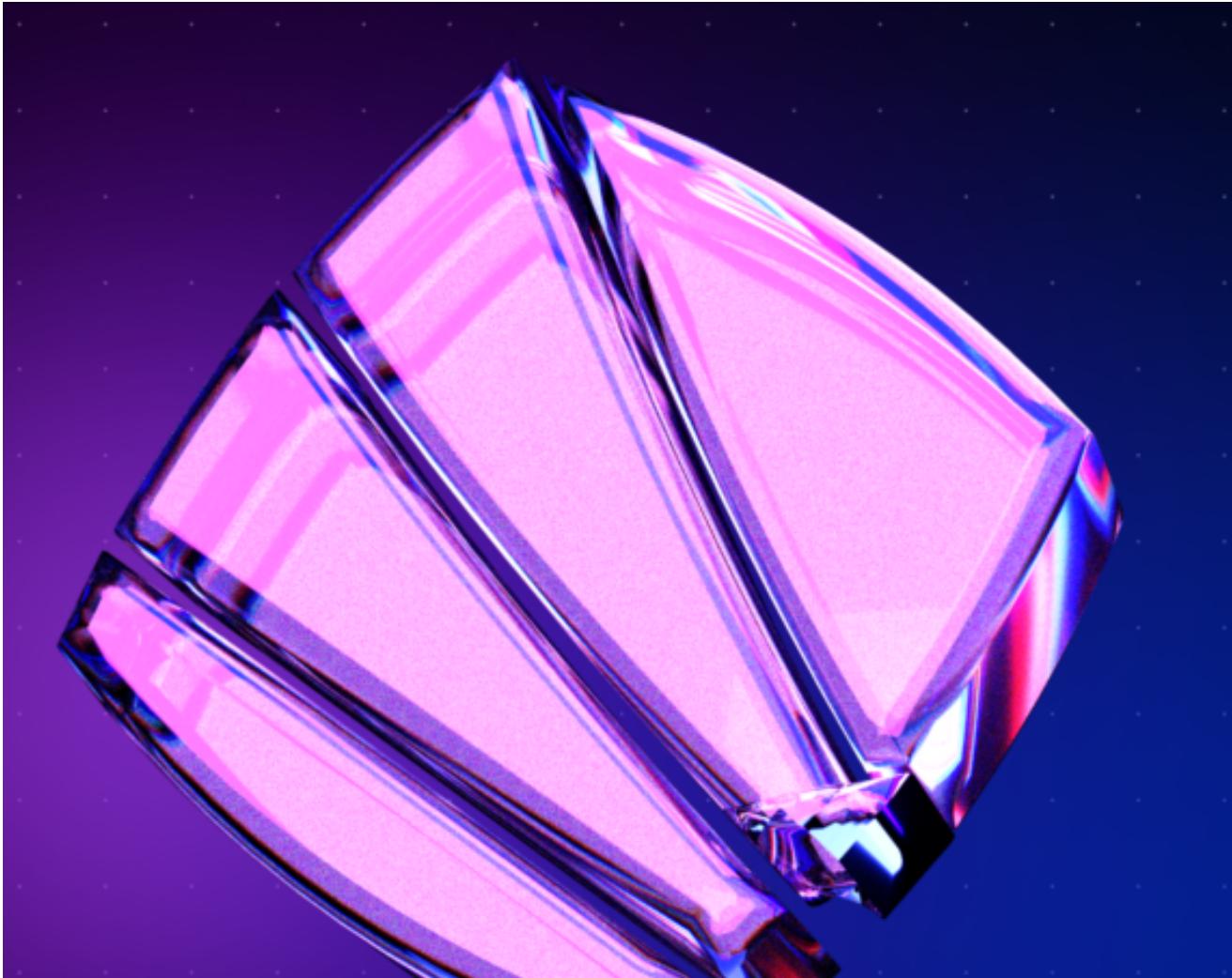


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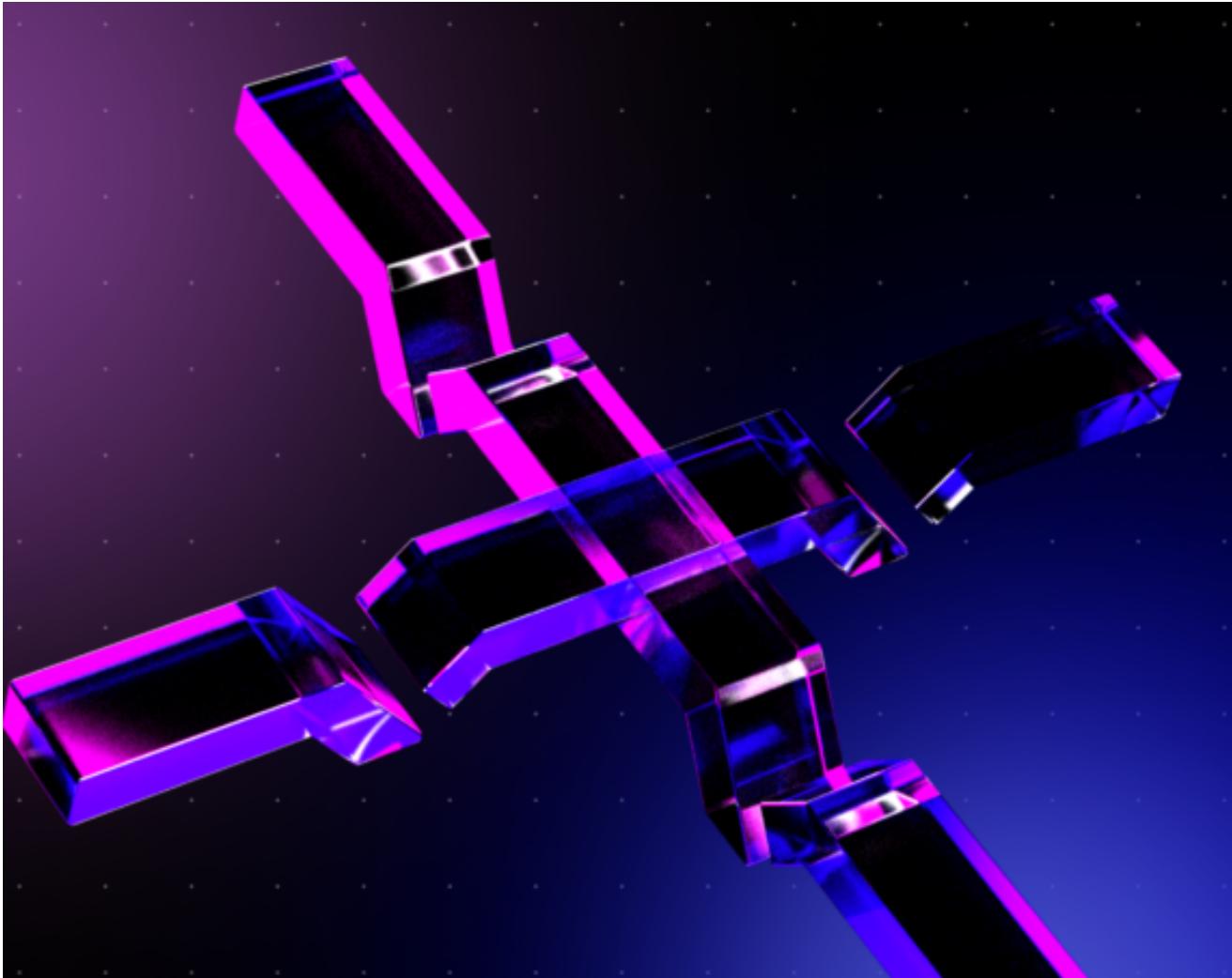
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