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**DeHacker**

Code Security Assessment

**VideoFi**

January 6th, 2023



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## Summary

DeHacker's objective was to evaluate the repository for security-related issues, code quality, and adherence to specification and best practices.

Possible issues we looked for included (but are not limited to):

- 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 code base by industry experts.

The security assessment resulted in findings that ranged from critical 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.



## Issue Categories

Every issue in this report was assigned a severity level from the following:

### Critical severity issues

A vulnerability that can disrupt the contract functioning in a number of scenarios or creates a risk that the contract may be broken.

### Major severity issues

A vulnerability that affects the desired outcome when using a contract or provides the opportunity to use a contract in an unintended way.

### Medium severity issues

A vulnerability that could affect the desired outcome of executing the contract in a specific scenario.

### Minor severity issues

A vulnerability that does not have a significant impact on possible scenarios for the use of the contract and is probably subjective.

### Informational

A vulnerability that has informational character but is not affecting any of the code.



# Overview

## Project Summary

Project Name	VideoFi
Platform	BSC
website	<a href="http://videofihq.xyz/">http://videofihq.xyz/</a>
Type	GameFi
Deployed contract	<a href="https://bscscan.com/token/0x20bbff517598D6926418A6AbFc5b51350b4139Aa">https://bscscan.com/token/0x20bbff517598D6926418A6AbFc5b51350b4139Aa</a> #code
Language	Solidity

## Audit Summary

Delivery Date	January 6, 2023
Audit Methodology	Static Analysis, Manual Review



## Vulnerability Summary

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Vulnerability Level	Total	Pending	Declined	Acknowledged	Partially Resolved	Resolved
Critical	0	0	0	0	0	0
Major	0	0	0	0	0	0
Medium	0	0	0	0	0	0
Minor	0	0	0	0	0	0
Informational	1	0	0	1	0	0
Discussion	0	0	0	0	0	0

## Audit scope

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ID	File	SHA256 Checksum
EPC	VIDEO TOKEN CONTRACT	0b61214aba29bbdea54ef12b679d9788f15429e8ec17ca37c2ce44



## Findings

ID	Title	Category	Severity	Status
GLOBAL-01	Use safeERC20 From transfer checking	Programming recommendations	Informational	Acknowledged



# Informational

## GLOBAL-01 | Use safeERC20 From transfer checking

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Category	Severity	Location	Status
Programming recommendations	Information	Line:180	Acknowledged

### Description

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Usually, it's better to use safeERC20 From transfer checking.

### Recommendation

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Use safeERC20 From transfer checking.

### Alleviation

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The VideoFi team informed us that the contract doesn't need to do this.





## Disclaimer

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This report should not be used in any way to make decisions surrounding investment or participation in any particular project. This report in no way provides investment advice and should not be used as investment advice of any kind. This report represents a broad evaluation process designed to help our customers improve the quality of their code while reducing the high risks posed by cryptographic tokens and blockchain technology.

Blockchain technology and crypto assets have a high level of ongoing risk. Dehacker' position is that each company and individual is responsible for their own due diligence and ongoing safety. The goal of Dehacker is to help reduce the medium of attack and the high level of variance associated with utilizing new and changing technologies, and in no way guarantee the safety or functionality of the technologies we agree to analyze.

The assessment service provided by Dehacker is influenced by dependencies and is under continued development. You agree that your access and/or use, including but not limited to any services, reports and materials, will be at your own risk as is, as is and as available. Cryptographic tokens are an emerging technology and carry a high level of technical risk and uncertainty. Evaluation reports may include false positives, false negatives, and other unpredictable results. These services can access and rely on multiple layers of third parties.

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# Appendix

## Finding Categories

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### Centralization / Privilege

Centralization / Privilege findings refer to either feature logic or implementation of components that act against the nature of decentralization, such as explicit ownership or specialized access roles in combination with a mechanism to relocate funds.

### Coding Style

Coding Style findings usually do not affect the generated bytecode but rather comment on how to make the codebase more legible and, as a result, easily maintainable.

### Volatile Code

Volatile Code findings refer to segments of code that behave unexpectedly on certain edge cases that may result in a vulnerability.

### Logical Issue

Logical Issue findings detail a fault in the logic of the linked code, such as an incorrect notion on how block. timestamp works.

## Checksum Calculation Method

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The "Checksum" field in the "Audit Scope" section is calculated as the SHA-256 (Secure Hash Algorithm 2 with digest size of 256 bits) digest of the content of each file hosted in the listed source repository under the specified commit.

The result is hexadecimal encoded and is the same as the output of the Linux "sha256sum" command against the target file.



## About

DeHacker is a team of auditors and white hat hackers who perform security audits and assessments. With decades of experience in security and distributed systems, our experts focus on the ins and outs of system security. Our services follow clear and prudent industry standards. Whether it's reviewing the smallest modifications or a new platform, we'll provide an in-depth security survey at every stage of your company's project. We provide comprehensive vulnerability reports and identify structural inefficiencies in smart contract code, combining high-end security research with a real-world attacker mindset to reduce risk and harden code.

### BLOCKCHAINS



Ethereum



Cosmos



Eos



Substrate

### TECH STACK



Python



Solidity



Rust



C++

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January 2023