HackSafe

Smart Contract Security Audit Report

Edge Activity Token

September 2022

Security Status

★ ★ ★ ★ ★

www.hacksafe.io

Audit Details

Audited project
Edge Activity Token

Deployer address
0xeD8dBA880d44CF95476947412414l325c6430fd3

Client contacts
Edge Activity Token Team

Blockchain
Polygon

Website
https://www.edgevideo.com/

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 cybersecurity vulnerabilities and issues in the framework and algorithms based on smart contracts, the details of which are set out in this report. In order to get a full view 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 below disclaimer below – please make sure to read it in full.

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The analysis of the security is purely based on the smart contracts alone. No applications or operations were reviewed for security. No product code has been reviewed.

Procedure

Step 1 - In-Depth Manual Review

Manual line-by-line code reviews to ensure the logic behind each function is sound and safe from various attack vectors. This is the most important and lengthy portion of the audit process (as automated tools often cannot find the nuances that lead to exploits such as flash loan attacks).

Step 2 - Automated Testing

Simulation of a variety of interactions with your Smart Contract on a test blockchain leveraging a combination of automated test tools and manual testing to determine if any security vulnerabilities exist.

Step 3 – Leadership Review

The engineers assigned to the audit will schedule meetings with our leadership team to review the contracts, any comments or findings, and ask questions to further apply adversarial thinking to discuss less common attack vectors.

Step 4 - Resolution of Issues

Consulting with the team to provide our recommendations to ensure the code's security and optimize its gas efficiency, if possible. We assist project team's in resolving any outstanding issues or implementing our recommendations.

Step 5 - Published Audit Report

Boiling down results and findings into an easy-to-read report tailored to the project. Our audit reports highlight resolved issues and any risks that exist to the project or its users, along with any remaining suggested remediation measures. Diagrams are included at the end of each report to help users understand the interactions which occur within the project.

Background

HackSafe was commissioned by Edge Activity Token to perform an audit of smart contract:

- https://polygonscan.com/address/0x7C58D971A5dAbd46BC85e81fDAE87b511431452E#code

The purpose of the audit was to achieve the

- Ensutre that the smart contract functions as intended.
- Identify potential security issues with the smart contract.

The information in this report should be understand the risk exposure of the smart contract, and as a guide to improve the security posture of the smart contract by remediating the issues that were identified.

Contract Details

Token contract details for 21.09.2022

Token Type	: ERC20
Contract name	: EdgeActivityToken
Contract address	: 0x7C58D971A5dAbd46BC85e81fDAE87b511431452E
Compiler version	: v0.8.4+commit.c7e474f2
Total supply	: 500,000,000
Token ticker	: EAT
Decimals	: 18
Token holders	: 1,356
Transactions count	: 77,407
Contract deployer address	: 0xeD8dBA880d44CF95476947412414l325c6430fd3
Owner address	: No owner

Social profiles

Twitter Profile	: https://twitter.com/EDGEvideoplayer
Telegram profile	: https://t.me/EDGEVideo
Coingecko profile	: https://www.coingecko.com/en/coins/edge-activity/
Coinmarketcap profile	: https://coinmarketcap.com/currencies/edge-activity-token/
Linkedin profile	: https://www.linkedin.com/company/edgevideo/

Claimed Smart Contract Features

Claimed Feature Detail

Tokenomics :

- **Name** : Edge Activity Token
- **Symbol** : EAT
- **Decimals** : 18
- **Protocol** : ERC20
- **Total supply** : 500,000,000
- **Contract address** : 0x7C58D971A5dAbd46BC85e81fDAE87b511431452E

Our Observation

YES, this is valid.

Audit Summary

According to the standard audit assessment, Customer`s solidity smart contracts are “well secure”. This token contract does not contain owner control, which do make it fully decentralized as owner does not have control over smart contract.

Insecure	Poor secured	Secure	Well-secured

You are here 

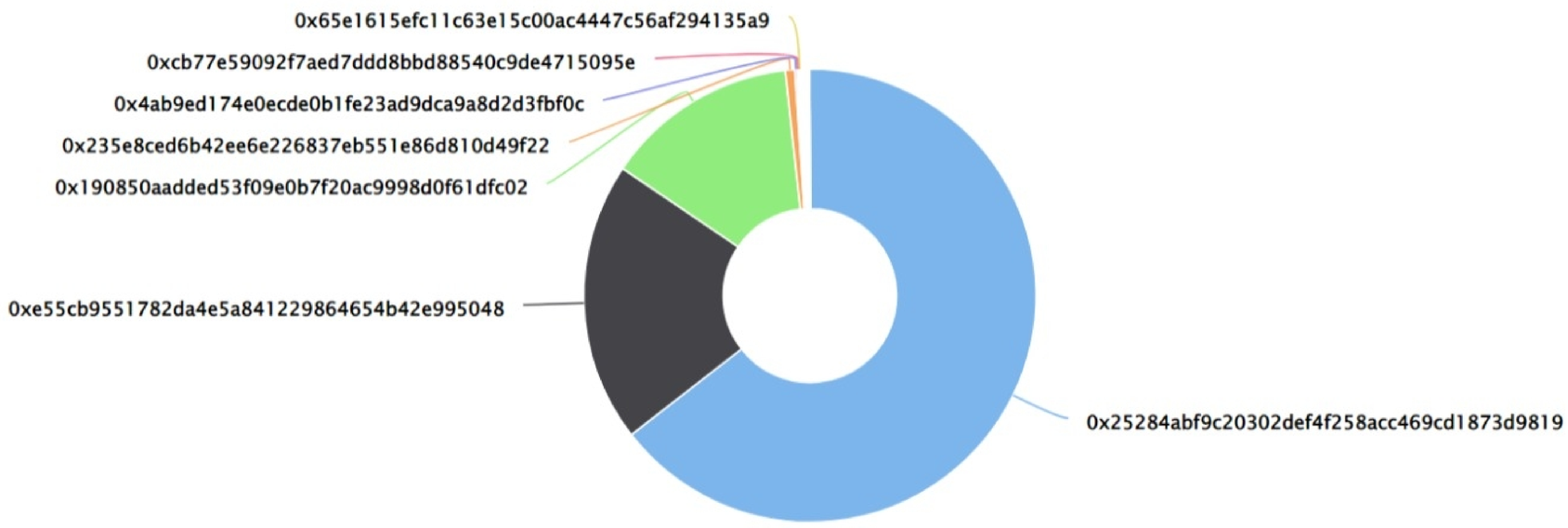
We used various tools like Slither, Mythril and Remix IDE. At the same time this finding is based on critical analysis of the manual audit. All issues found during automated analysis were manually reviewed and applicable vulnerabilities are presented in the issues checking status.

We found 0 critical, 0 high, 0 medium and 1 low and some very low-level issues.

Edge Activity Token Distribution

The top 100 holders collectively own 99.98% (499,892,029.19 Tokens) of Edge Activity Token

Token Total Supply: 500,000,000.00 Token | Total Token Holders: 1,356



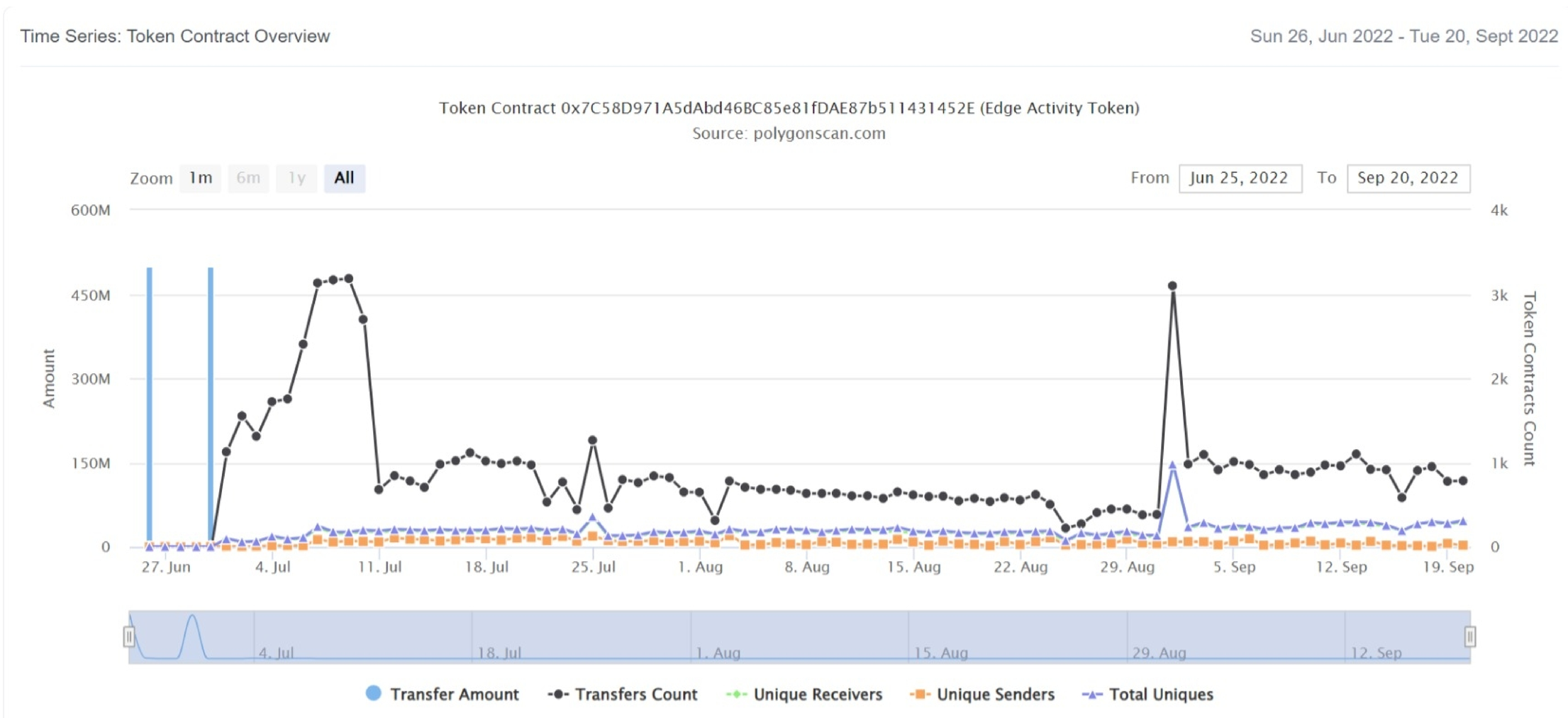
Edge Activity Token Top 20 Token Holders

(A total of 499,892,029.19 tokens held by the top 100 accounts from the total supply of 500,000,000.00 token)

Rank	Address	Quantity (Token)	Percentage
1	0x25284abf9c20302def4f258acc469cd1873d9819	322,394,472.67	64.4789%
2	0xe55cb9551782da4e5a841229864654b42e995048	100,000,000	20.0000%
3	0x190850aadded53f09e0b7f20ac9998d0f61dfc02	68,923,671	13.7847%
4	0x235e8ced6b42ee6e226837eb551e86d810d49f22	3,392,220.547518101636631624	0.6784%
5	0x4ab9ed174e0ecde0b1fe23ad9dca9a8d2d3fbf0c	840,377	0.1681%
6	0xcb77e59092f7aed7ddd8bbd88540c9de4715095e	565,000.3591640765709431	0.1130%
7	0x65e1615efc11c63e15c00ac4447c56af294135a9	507,234.753955547208113447	0.1014%
8	0x6d21453c9a43f9c0d4be640e325ca59bd1e844f3	384,032.690802304498265598	0.0768%
9	0x4ddf815e19d5e0ea88534e8b7fab908dd28256f2	376,772	0.0754%
10	0x00290ffc9e9d19bda7b25c6e44d8adf55dfbf2dd	312,500	0.0625%
11	0x5681e9bb210b237a15300d69111a9ef8ef4335c7	300,000	0.0600%
12	0xf64d9c4c1d47c38bb928571f6d451850b83a5bda	268,383.835201058060347189	0.0537%
13	0x71f36803139cac2796db65f373fb7f3ee0bf3bf9	250,000	0.0500%
14	0xe14c85483c47ee7ed5d74111e6ff47f8bf9567d4	210,915.995177754765229577	0.0422%
15	0x5fd13321a18e3e2d3bca429469ecd442360fb076	100,000	0.0200%
16	0x8faaff30ac586ca17b485035ae9d8a949709400f	83,333	0.0167%
17	0x3c64e8f307880d64d1f5c485a422ec821baa959a	75,434.4874369412759248	0.0151%
18	0x8464533717e711d0b18322f12a99d8a44009bf9f	75,000	0.0150%
19	0xb4e5613515cf2b9e81412f434b17779ec5963be5	75,000	0.0150%
20	0xc80854dcbbd806e0b6936569c9f3e80a4492a5dc	50,001.7856928695729713	0.0100%

Edge Activity Token Distribution

Edge Activity Token Contract Overview



Contract functions details

+[Int] IERC20
    -[Ext] totalSupply
    -[Ext] balanceOf
    -[Ext] transfer
    -[Ext] allowance
    -[Ext] approve
    -[Ext] transferFrom

+[Int] IERC20Metadata (IERC20)
    -[Ext] name
    -[Ext] symbol
    -[Ext] decimals

+ Context
    -[Int] _msgSender
    -[Int] _msgData

+ ERC20 (Context, IERC20, IERC20Metadata)
    -< constructor>
    -[Pub] name
    -[Pub] symbol
    -[Pub] decimals
    -[Pub] totalSupply
    -[Pub] balanceOf
    -[Pub] transfer
    -[Pub] allowance
    -[Pub] approve #
    -[Pub] transferFrom #
    -[Pub] increaseAllowance #
    -[Pub] decreaseAllowance #
    -[Int] _transfer #
    -[Int] _mint #
    -[Int] _burn #
    -[Int] _approve #
    -[Int] _beforeTokenTransfer
    -[Int] _afterTokenTransfer

Contract functions details

+ERC20Burnable (Context, ERC20)
    -[Pub] burn #
    -[Pub] burnFrom #

+EdgeActivityToken (ERC20Burnable)
    -<constructor> #

($) = payable function
= non-constant function

Issues Checking Status

No.	Title	Status
1.	Unlocked Compiler Version	Low issue
2.	Missing Input Validation	Passed
3.	Race conditions and Reentrancy. Cross-function race conditions.	Passed
4.	Possible delays in data delivery	Passed
5.	Oracle calls.	Passed
6.	Timestamp dependence.	Passed
7.	Integer Overflow and Underflow	Passed
8.	DoS with Revert.	Passed
9.	DoS with block gas limit.	Passed
10.	Methods execution permissions.	Passed
11.	Economy model of the contract.	Passed
12.	Private use data leaks.	Passed
13.	Malicious Event log.	Passed
14.	Scoping and Declarations.	Passed
15.	Uninitialized storage pointers.	Passed
16.	Arithmetic accuracy.	Passed
17.	Design Logic.	Passed
18.	Safe Open Zeppelin contracts implementation and usage.	Passed
19.	Incorrect Naming State Variable	Passed
20.	Too old version	Passed

Severity Definitions

Risk Level	Description
Critical	Critical vulnerabilities are usually straightforward to exploit and can lead to assets loss or data manipulations.
High	High-level vulnerabilities are difficult to exploit; however, they also 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 assets 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.

Security Issues

Critical Severity Issues

No critical severity issue found.

High Severity Issues

No high severity issues found.

Medium Severity Issues

No medium severity issues found.

Low Severity Issues

One low severity issue found.

1. Unlocked Compiler Version.

- **Description**

  The contract utilizes an unlocked compiler version. An unlocked compiler version in the contract's source code permits the user to compile it at or above a particular version. This, in turn, leads to differences in the generated bytecode between compilations due to differing compiler version numbers. This can lead to ambiguity when debugging as compiler-specific bugs may occur in the codebase that would be difficult to identify over a span of multiple compiler versions rather than a specific one.

- **Recommendation**

  It is advisable that the compiler version is alternatively locked at the lowest version possible so that the contract can be compiled. For example, for version ^0.8.0 the contract should contain the following line:

  pragma solidity 0.8.4;

Conclusion

Smart contract contains low severity issues! The further transfer and operations with the fund raised are not related to this particular contract.

HackSafe note: Please check the disclaimer above and note, the audit makes no statements or warranties on business model, investment attractiveness or code sustainability. The report is provided for the only contract mentioned in the report and does not include any other potential contracts deployed by Owner.