



# Smart Contract Security Audit Report

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## Global Trading Xenocurrency

July 2022

Security Status



[www.hacksafe.io](https://www.hacksafe.io)



# Audit Details



## Audited project

Global Trading Xenocurrency



## Deployer address

TQMzf6NRwiR1loyYtndfvsvZ7Gvo8SsCGt



## Client contacts

Global Trading Xenocurrency team



## Blockchain

Tronchain



## Website

<http://xibitio.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 Global Trading Xenocurrency to perform an audit of smart contracts:

- <https://tronscan.org/#/contract/TNX4acLTt4X1hTnx2dFD8RbN5gX6gBEVmU/code>

**The purpose of the audit was to achieve the**

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

The information in this report should be understood to 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 07.07.2022

Token Type	: TRC20
Contract name	: Token
Contract address	: TNX4acLTt4X1hTnx2dFD8RbN5gX6gBEVmU
Compiler version	: solidity 0.5.10
Total supply	: 10,000,000,000
Token Ticker	: GTX
Decimals	: 6
Token Holders	: 1,015
Transactions count	: 1,020
Contract deployer address	: TQMzf6NRwiR1loyYtndfvsvZ7Gvo8SsCGt
Owner address	: No Owner

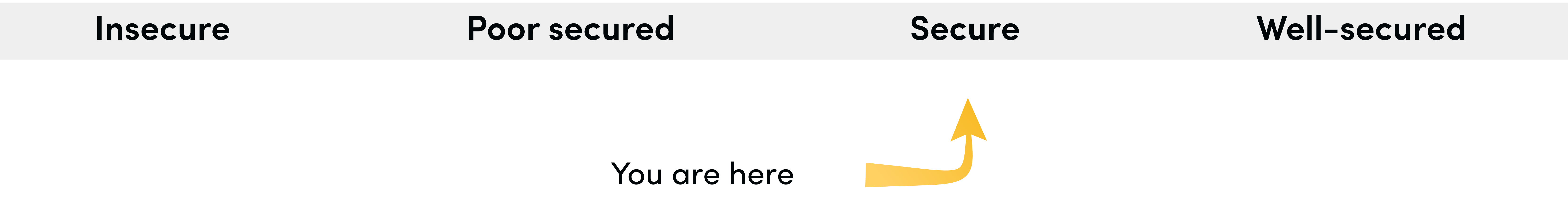
# Social profiles

Twitter Profile	: <a href="https://twitter.com/xibit_biz">https://twitter.com/xibit_biz</a>
Facebook Profile	: <a href="https://www.facebook.com/people/Biz-Xibit/100082460883089/">https://www.facebook.com/people/Biz-Xibit/100082460883089/</a>
Telegram Profile	: <a href="https://t.me/GTXofficial">https://t.me/GTXofficial</a>
Coinmarketcap profile	: <a href="https://coinmarketcap.com/currencies/global-trading-xenocurrency/">https://coinmarketcap.com/currencies/global-trading-xenocurrency/</a>



# Audit Summary

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

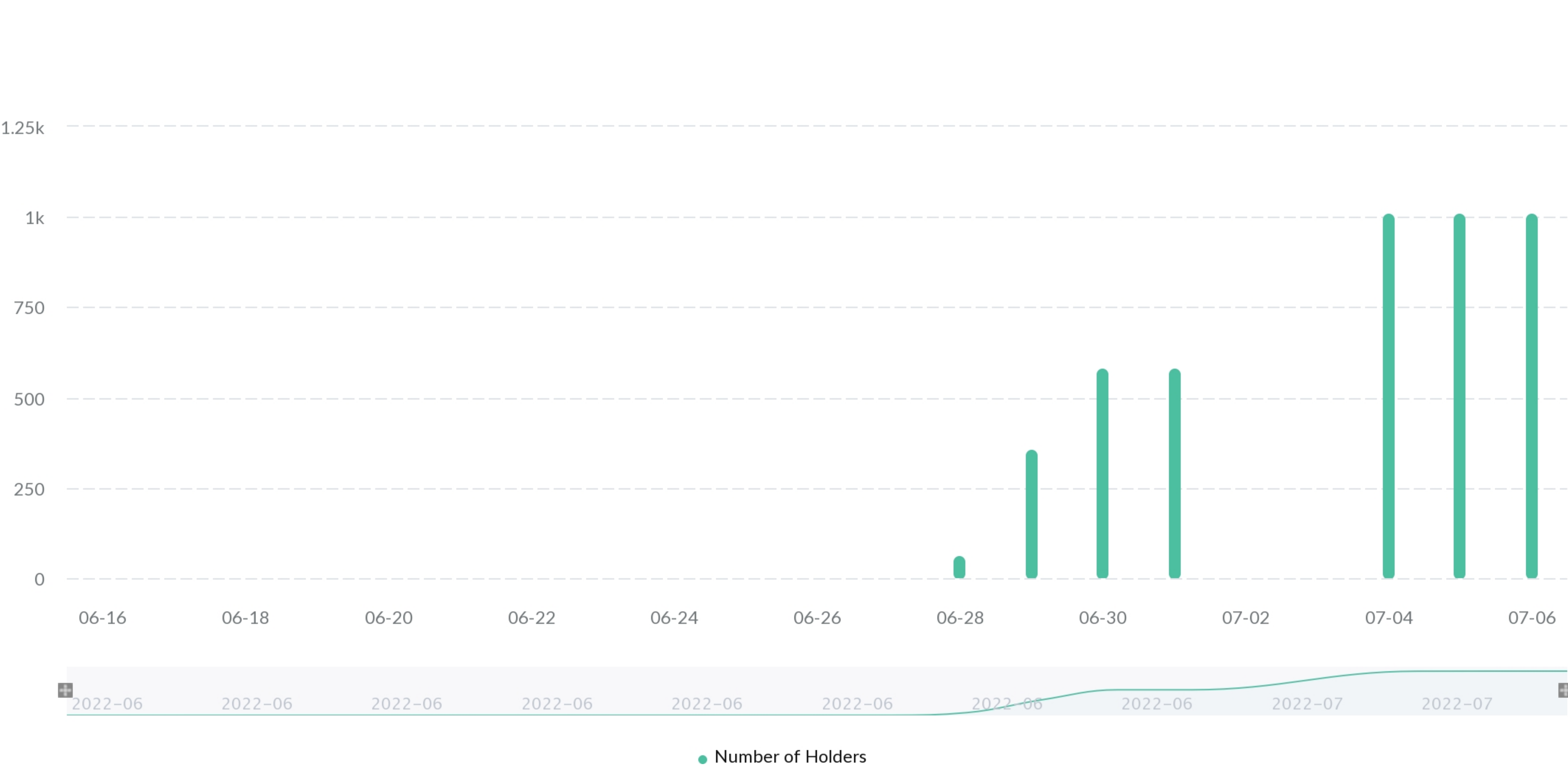


We used various tools like Slither, Mythril and Remix IDE. At the same time this finding is based on critical analysis of the manual audit. All issues found during automated analysis were manually reviewed and applicable vulnerabilities are presented in the issues checking status.

We found 0 critical, 0 high, 0 medium and 2 low and some very low-level issues. These issues are not critical ones.







# GTX Token Distribution



# GTX Token Distribution

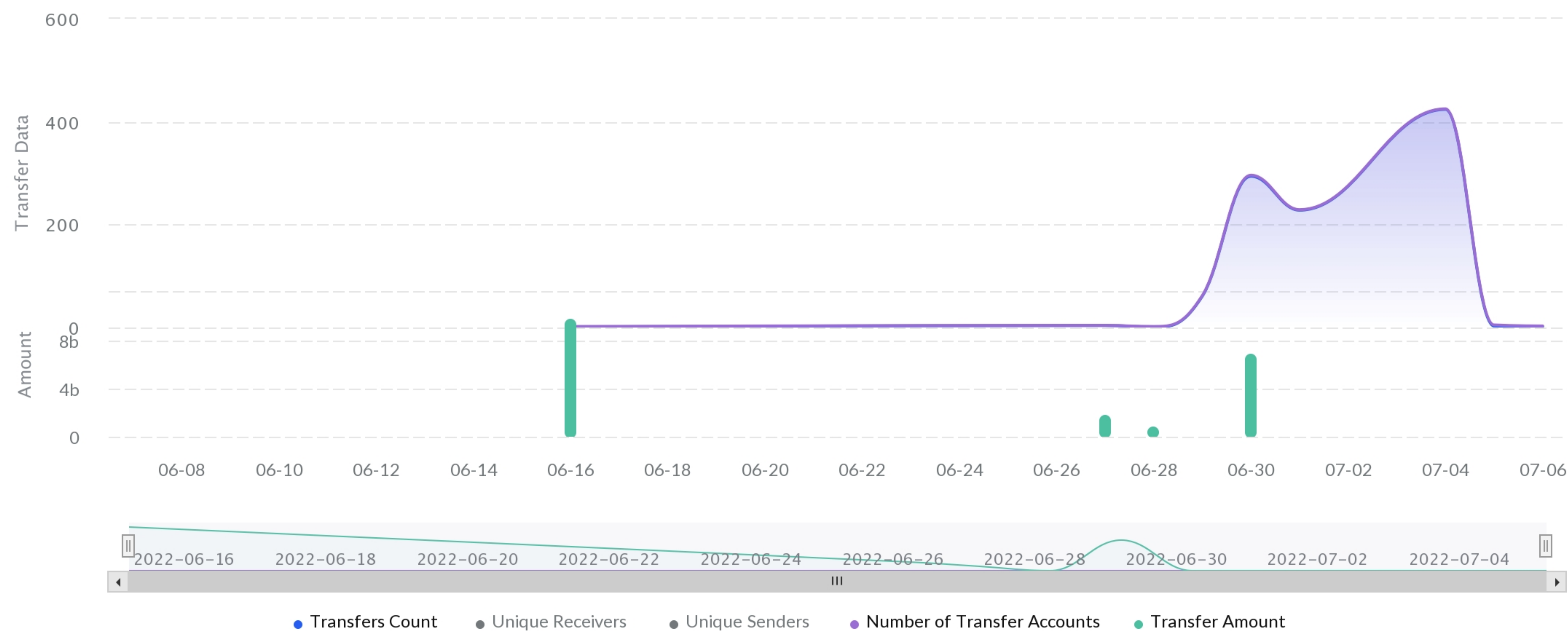
## GTX Token Top 20 Token Holders

#	Address	 Amount	 Value	 Percentage	 Latest Txn Time (UTC)
1	TU77VWS2XXjkEKhUNzgVRqsK4Mr8xQVmeM	1,000,000,000.000000	--	10%	2022-06-30 07:33:30
2	TPuYG5h1bizyY4YSxB89qLbd7F7vnjt2VX	1,000,000,000.000000	--	10%	2022-06-30 08:10:51
3	TLu8LDJVR9Sriadn23zMVzXuzosnAhU1eN	1,000,000,000.000000	--	10%	2022-06-30 08:00:33
4	TKkyeQ4MmiQYMvRYjETiyCAmjQM43JRnpV	1,000,000,000.000000	--	10%	2022-06-30 07:44:48
5	TDrECLXwtu5vihadhpW6ho3SHmjnKs6ntR	1,000,000,000.000000	--	10%	2022-06-30 08:19:42
6	TAmBGcY4JJCSVsLXc18e5vziKvghv5N98x	1,000,000,000.000000	--	10%	2022-06-30 07:23:21
7	TAextRR4XUR6QGPMJddJjEX5HDMyqH3ozG	1,000,000,000.000000	--	10%	2022-06-30 07:52:36
8	TNWtqXxkf94F7XWSt7Lmi6ZKzpkWuQ43hT	999,999,100.000000	--	9.999991%	2022-07-05 15:25:03
9	TEFqUg5KZCWgUFo7sV4uXjb3cfbkSBMhVF	974,140,000.000000	--	9.7414%	2022-07-04 09:17:27
10	TQMzf6NRwiR11oyYtndfvsvZ7Gvo8SsCGt	899,999,000.000000	--	8.99999%	2022-07-07 05:00:39
11	THyNKGEdAKHia1XgA2nwnbL1FhABTqY1f3 <span>AAX</span>	100,000,000.000000	--	1%	2022-07-07 05:09:12
12	TYwJ7oMdr8hKRusbQKberL3fbvCvA2QE3g	50,000.000000	--	0.0005%	2022-06-29 09:41:27
13	TYNEzZj18MXQNcgaWV6G93r8rYSWPvt81f	50,000.000000	--	0.0005%	2022-07-04 02:32:51
14	TYFTJWZdDovUZ5sibr6KMo49vMi4LpLnEq	50,000.000000	--	0.0005%	2022-07-01 01:05:54
15	TXdhjYV3XHrrB6GnfgNPLmbZ21HHShWkSe	50,000.000000	--	0.0005%	2022-07-04 02:41:15
16	TXSDbY1nPs1ufug8EQ4RNv2bZDLGw6RASV	50,000.000000	--	0.0005%	2022-07-04 07:22:24
17	TXJWYxF7dd4zCvYdzhJ7xu8AXVKtG73wew	50,000.000000	--	0.0005%	2022-06-30 04:04:33
18	TVhe9XyQkPXoaoLmxNZBqCLtCYZrir2ze4	50,000.000000	--	0.0005%	2022-07-01 01:48:18
19	TVcFydgxZ1h1yHiuLzjcnDVTzBPk2gKZeo	50,000.000000	--	0.0005%	2022-07-01 05:05:57
20	TVb36HPG6n3y7DnJ6iY674jGpb3RsvozTu	50,000.000000	--	0.0005%	2022-06-30 05:48:09



# GTX Token Distribution

## GTX Token Contract Overview



# Contract functions details

ERC20.sol

+ ERC20 (IERC20)

- [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] \_burnFrom #

ERC20Detailed.sol

+ ERC20Detailed (IERC20)

- [Pub] <constructor> #
- [Pub] name
- [Pub] symbol
- [Pub] decimals

IERC20.sol

+ [Int] IERC20

- [Ext] totalSupply
- [Ext] balanceOf
- [Ext] transfer
- [Ext] allowance
- [Ext] approve
- [Ext] transferFrom

SafeMath.sol

+ [Lib] SafeMath

- [Int] add
- [Int] sub
- [Int] mul
- [Int] div
- [Int] mod



# Contract functions details

Token.sol

+ Token (ERC20, ERC20Detailed)

-<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	Low issue



# 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 issue found.

## ✔ Medium Severity Issues

No medium severity issue found.

## ✔ Low Severity Issues

Two 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 ^0.5.0 the contract should contain the following line:

```
pragma solidity 0.5.10;
```

### 2. Too old compiler version

- **Description**

The smart contract does have the too old solidity compiler version.

- **Recommendation**

It advisable to use the any of the newest versions of solidity.



# 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.