

Smart Contract Security Audit Report

HXRO

February 2023

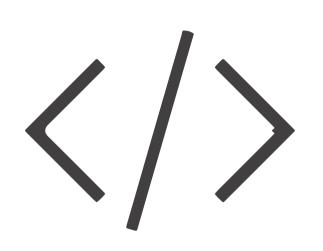


Audit Details



Audited project

HXRO



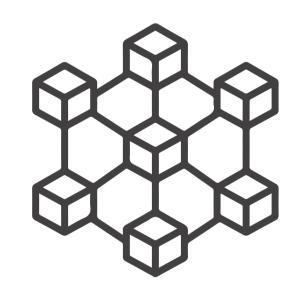
Deployer address

0x8aab155babfb5ccdc3bbfa382e96755e859acdfb



Client contacts

HXRO Team



Blockchain

Ethereum



Website

https://hxro.com/#/

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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.

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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.

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Background

HackSafe was commissioned by HXRO to perform an audit of smart contracts:

• https://etherscan.io/token/0x4bd70556ae3f8a6ec6c4080a0c327b24325438f3#code

The purpose of the audit was to achieve the following:

- Ensure 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.

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Contract Details

Token contract details for 02.02.2023

Owner address

Token Type	: DEFI
Contract name	: HxroTokenContract
Contract address	: 0x4bD70556ae3F8a6eC6C4080A0C327B24325438f3
Total supply	: 1,000,000,000
Token ticker	: HXRO
Decimals	: 18
Token Holders	: 6,843
Transactions count	: 95,556
Compiler version	: v0.4.25+commit.59dbf8f1
Contract deployer address	: 0x8aab155babfb5ccdc3bbfa382e96755e859acdfb

: 0x7Ecbe2a5EeDBB39c6Eb460207ac0B10463835D71

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Audit Summary

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

Insecure Poor secured Secure Well-secured

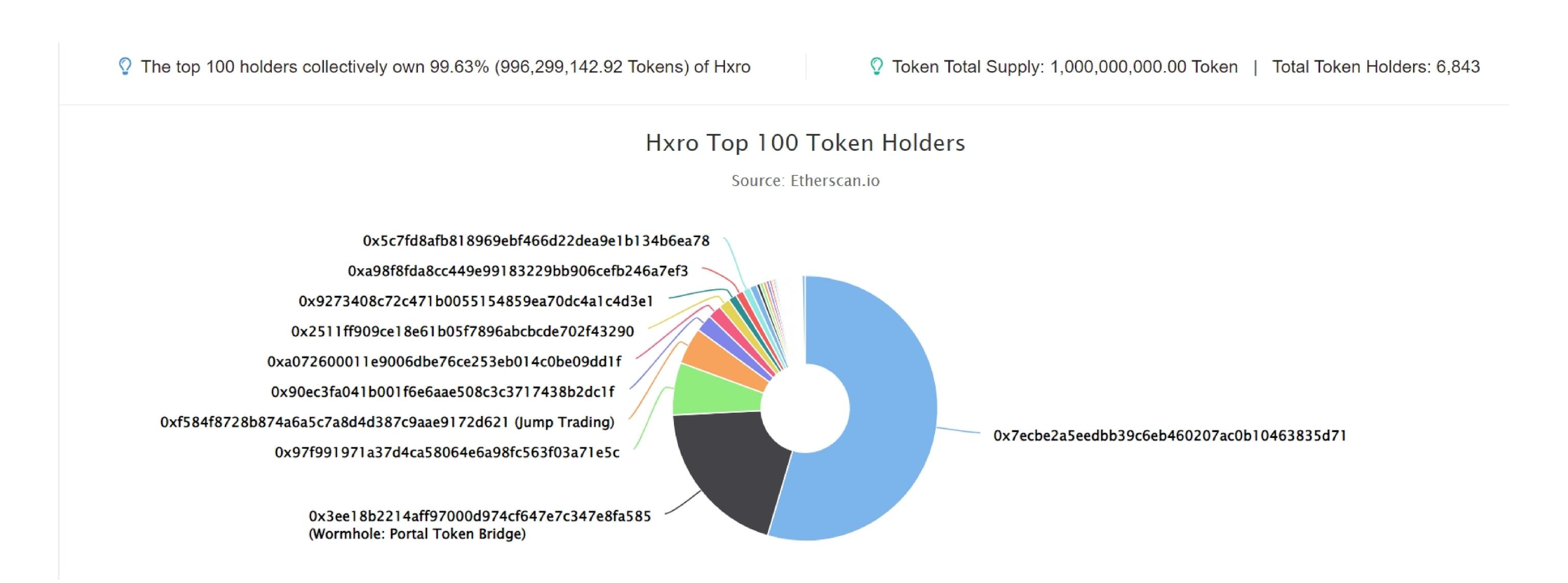
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We used various tools like Slither, Mythril and Remix IDE. At the same time this finding is based on critical analysis of the manual audit. All issues found during automated analysis were manually reviewed and applicable vulnerabilities are presented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

We found 0 critical, 0 high, 0 medium and 0 low.

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HXRO Token Distribution



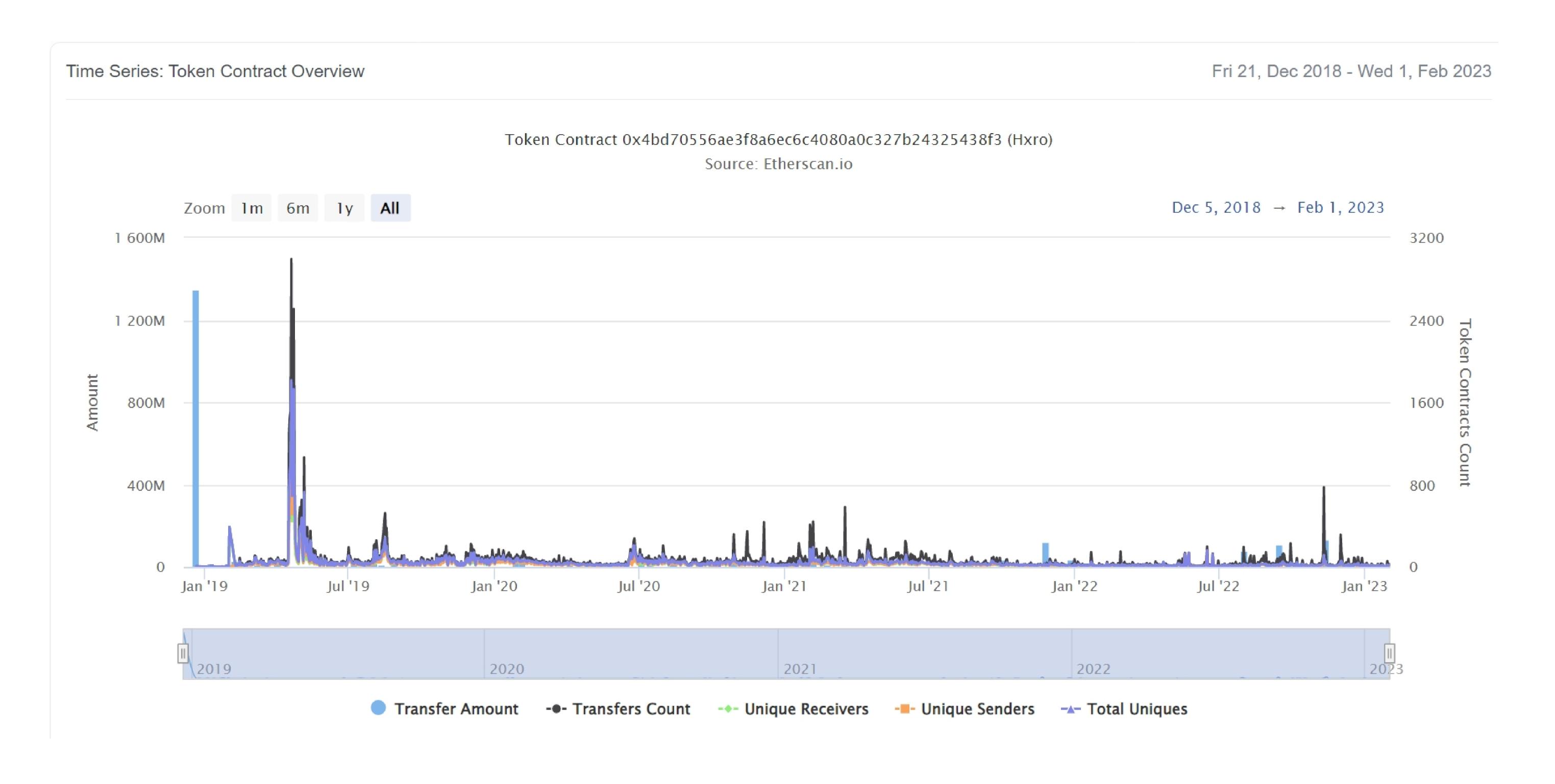
HXRO Top 20 Token Holders

(A total of 996,299,142.92 tokens held by the top 100 accounts from the total supply of 1,000,000,000.00 token)

Rank	Address	Quantity (Token)	Percentage
1	(a) 0x7ecbe2a5eedbb39c6eb460207ac0b10463835d71	545,942,733.106443723074555763	54.5943%
2	Wormhole: Portal Token Bridge	195,965,009.17141082	19.5965%
3	(a) 0x97f991971a37d4ca58064e6a98fc563f03a71e5c	63,972,577.722966507390380632	6.3973%
4	Jump Trading	44,877,329.2	4.4877%
5	①x90ec3fa041b001f6e6aae508c3c3717438b2dc1f	21,000,000	2.1000%
6	①xa072600011e9006dbe76ce253eb014c0be09dd1f	16,698,811.194	1.6699%
7	0x2511ff909ce18e61b05f7896abcbcde702f43290	13,879,383.212823	1.3879%
8	0x9273408c72c471b0055154859ea70dc4a1c4d3e1	9,999,525	1.0000%
9	①xa98f8fda8cc449e99183229bb906cefb246a7ef3	9,990,490	0.9990%
10	①x5c7fd8afb818969ebf466d22dea9e1b134b6ea78	9,208,948.127144560704906068	0.9209%
11	0x475de437ef0fef98c7ec86083f3fb319a1081bae	8,500,000	0.8500%
12	0x8be78933961b7d6f07a9d6433425c1d08c786d09	4,367,845.2	0.4368%
13	0x735fe309917cb0a25cc3567123dd5d43fdd70918	3,963,352.213361	0.3963%
14	FalconX: 0x115101	3,936,615.4759830000000003	0.3937%
15	0x53ffacf7decdbc9711573ad68b3d25119823efec	3,745,200.241779614047816433	0.3745%
16	0xf713ac2513140c9372d6df930214d36480667337	3,000,000	0.3000%
17	0xd05ef6b64d02e3a8ee25988cdfc96157329857b8	2,244,155.91	0.2244%
18	① 0xff36c7a5c2254de24cfe43d91acf1763c805ce86	2,142,367.304130702	0.2142%
19	①x4de77746ff60905a49961a73e75c0c8ca361c60e	1,984,848.48	0.1985%
20	0x1fc4d53298d9cf13170c857bd16e4aa9fbd4b000	1,637,914.0344827586	0.1638%

HXRO Token Distribution

HXRO Contract overview



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Contract functions details

```
+Owner
    - [Pub] <constructor>
    - [Pub] transferOwnership #
     -modifiers: onlyOwner
+[Int] tokenRecipient
    -[Ext] receiveApproval
+HxroTokenContract (Owner)
    -[Pub] <constructor> #
    -[Int] _transfer #
    -[Pub] transfer #
    -[Pub] transferFrom #
    -[Pub] approve #
    -[Pub] approveAndCall #
    -[Pub] burn #
    -[Pub] burnFrom #
    -[Pub] sweep #
      -modifiers: onlyowner
    -[Pub] getMetaData
    -[Pub] releaseLockedFund #
      -modifiers: onlyowner
($) = payable function
# = non-constant function
```

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Issues Checking Status

No.	Title	Status
1.	Compiler error	Passed
2.	Missing Input Validation	Passed
3.	Race conditions and Reentrancy. Cross-function race conditions.	
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

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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.

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Security Issues

- Critical Severity Issues
 No critical severity issue found.
- High Severity IssuesNo high severity issue found.
- Medium Severity Issues
 No medium severity issue found.
- Low Severity IssuesNo low severity issue found.

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Centralization

Owner Privileges

- HXRO Coin Contract:
 - Owner can transfer Ownership.
 - Owner can sweep tokens.
 - Owner can release Locked Fund.

This smart contract has some functions which can be executed by the admin (Owner) only. If the admin wallet private key would be compromised, then it would create trouble, as smart contract ownership has not been renounced.

- releaseLockedFund
- sweep
- transferOwnership

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Conclusion

Smart contract contains no medium 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.

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