

SECURITY AUDIT

HATOK

January, 2022

Website: soken.io



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Disclaimer

This is a comprehensive report based on our automated and manual examination of cybersecurity vulnerabilities and framework flaws. We took into consideration smart contract based algorithms, as well. Reading the full analysis report is essential to build your understanding of project's security level. It is crucial to take note, though we have done our best to perform this analysis and report, that you should not rely on the our research and cannot claim what it states or how we created it. Before making any judgments, you have to conduct your own independent research. We will discuss this in more depth in the following disclaimer - please read it fully.

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Security analysis is based only on the smart contracts. No applications or operations were reviewed for security. No product code has been reviewed.



Procedure

Our analysis contains following steps:

- 1. Project Analysis;
- 2. Manual analysis of smart contracts:
- Deploying smart contracts on any of the network(Ropsten/Rinkeby) using Remix IDE
- · Hashes of all transaction will be recorded
- · Behaviour of functions and gas consumption is noted, as well.

3. Unit Testing:

- Smart contract functions will be unit tested on multiple parameters and under multiple conditions to ensure that all paths of functions are functioning as intended.
- In this phase intended behaviour of smart contract is verified.
- In this phase, we would also ensure that smart contract functions are not consuming unnecessary gas.
- Gas limits of functions will be verified in this stage.

4. Automated Testing:

- Mythril
- Oyente
- Manticore
- Solgraph



Terminology

We categorize the finding into 4 categories based on their vulnerability:

- Low-severity issue less important, must be analyzed
- Medium-severity issue important, needs to be analyzed and fixed
- High-severity issue —important, might cause vulnerabilities, must be analyzed and fixed
- Critical-severity issue —serious bug causes, must be analyzed and fixed.

Limitations

The security audit of Smart Contract cannot cover all vulnerabilities. Even if no vulnerabilities are detected in the audit, there is no guarantee that future smart contracts are safe. Smart contracts are in most cases safeguarded against specific sorts of attacks. In order to find as many flaws as possible, we carried out a comprehensive smart contract audit. Audit is a document that is not legally binding and guarantees nothing.



Token Contract Details for 05.01.2022

Contract Name: haToken

Deployed address: 0xF086D5B9019CC637dAD17b83321D93f84FfaA49b

Total Supply: 1,960,000,000,000,000

Token Tracker: **HATOK**

Decimals: 9

Token holders: 36368

Transactions count: 116632

Top 100 holders dominance: 92.49%

Audit Details



Project Name: **HATOK**

Language: Solidity

Compiler Version: v0.7.0

Blockchain: BSC



Social Profiles

Project Website: https://www.hatok.io/

Project Twitter: https://twitter.com/humanassetoken

Project Telegram: https://t.me/humanassetoken

Project Telegram Announcement: https://t.me/hatokchannel

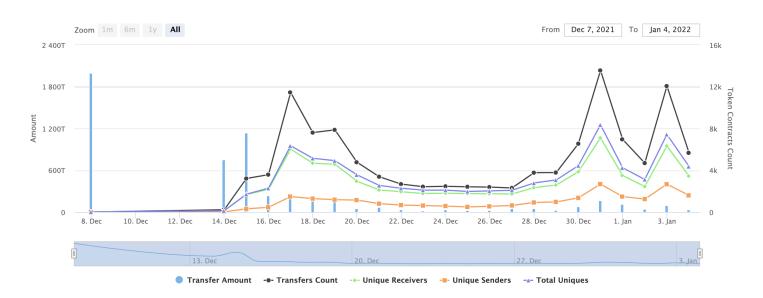
Project Telegram Chinese Group: https://t.me/hatokchinese

Project Telegram French Group: https://t.me/hatokfrench

Project Instagram: https://instagram.com/humanassetoken

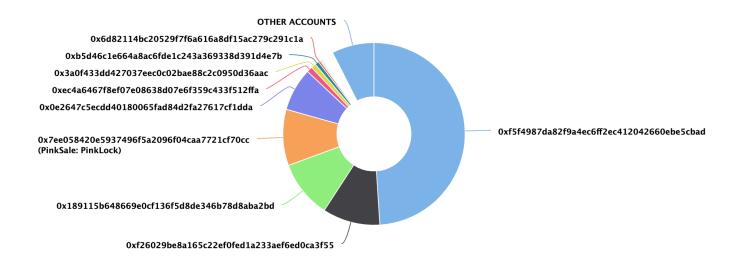
Project Reddit:: https://www.reddit.com/r/humanassetoken/

Contract Analytics





HATOK Token Distribution



HATOK Top Holders

Rank	Address	Quantity (Token)	Percentage
1	0xf5f4987da82f9a4ec6ff2ec412042660ebe5cbad	960,000,000,000,000	48.9796%
2	0xf26029be8a165c22ef0fed1a233aef6ed0ca3f55	200,000,000,000,000	10.2041%
3	0x189115b648669e0cf136f5d8de346b78d8aba2bd	200,000,000,000,000	10.2041%
4	∄ PinkSale: PinkLock	195,162,103,643,157.518675183	9.9573%
5	0x0e2647c5ecdd40180065fad84d2fa27617cf1dda	150,000,000,000,000	7.6531%
6	0xec4a6467f8ef07e08638d07e6f359c433f512ffa	19,856,415,561,529.693705495	1.0131%
7	0x3a0f433dd427037eec0c02bae88c2c0950d36aac	16,593,965,105,558.186144039	0.8466%
8	0xb5d46c1e664a8ac6fde1c243a369338d391d4e7b	13,169,125,785,109.877371504	0.6719%
9	0x6d82114bc20529f7f6a616a8df15ac279c291c1a	7,000,000,000,000	0.3571%
10	PancakeSwap V2: HATOK	4,494,878,609,840.389812175	0.2293%



Swap Analysis

- ✓ Token is sellable (not a honeypot) at this time
- ✓ Buy fee is <= 10% (0%)</p>
- ✓ Sell fee is <= 10% (0%)</p>

Contract Analysis

- Verified contract source
- No prior similar token contracts
- Source does not contain a proxy contract
- Source does not contain a pausable contract
- Ownership renounced or source does not contain an owner contract.

Holder Analysis

Owner/creator wallet contains less than 10% of token supply (< 48.97%)</p>

Contract Analysis

- Adequate liquidity present (141.65 BNB)
- At least 95% of liquidity burned/locked (98.19%) in Unilocker
- ✓ Owner/creator wallet contains less than 5% of liquidity



Contract Function Details

- + haToken.sol
- [Pub] withdrawTokens
- [Pub] burn
- [Pub] burnFrom
- [Ext] withdraw
- [Ext] withdraw
- + Address.sol
- [Int] isContract
- [Int] sendValue
- + BEP20.sol
- [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
- + BEP20Pausable.sol
- [Int] beforeTokenTransfer
- + Context.sol
- [Int] _msgSender
- [Int] _msgData
- + IBEP20.sol
- [Ext] totalSupply
- [Ext] balanceOf
- [Ext] transfer
- [Ext] allowance
- [Ext] approve
- [Ext] transferFrom



- + Ownable.sol
- [Pub] transferOwnership
- + Pausable.sol
- [Pub] paused
- [Int] _pause
- [Int] _unpause
- + SafeBEP20.sol
- [Int] safeTransfer
- [Int] safeTransferFrom
- [Int] safeApprove
- [Int] safeIncreaseAllowance
- [Int] safeDecreaseAllowance
- [Prv] callOptionalReturn
- + SafeMath.sol
- [Int] add
- [Int] sub
- [Int] sub
- [Int] mul
- [Int] div
- [Int] div
- [Int] mod
- [Int] mod



Vulnerabilities checking

Issue Description	Checking Status
Compiler Errors	Completed
Delays in Data Delivery	Completed
Re-entrancy	Completed
Transaction-Ordering Dependence	Completed
Timestamp Dependence	Completed
Shadowing State Variables	Completed
DoS with Failed Call	Completed
DoS with Block Gas Limit	Completed
Outdated Complier Version	Completed
Assert Violation	Completed
Use of Deprecated Solidity Functions	Completed
Integer Overflow and Underflow	Completed
Function Default Visibility	Completed
Malicious Event Log	Completed
Math Accuracy	Completed
Design Logic	Completed
Fallback Function Security	Completed
Cross-function Race Conditions	Completed
Safe Zeppelin Module	Completed



Security Issues

1) Owner Privileges

The contract contains ownership functionality and ownership is not renounced which allows the creator or current owner to modify contract behaviour (for example, disable selling or mint new tokens).



Conclusion

Low-severity issues exist within smart contracts. Smart contracts are free from any critical or high-severity issues.

NOTE: Please check the disclaimer above and note, that audit makes no statements or warranties on business model, investment attractiveness or code sustainability.





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