



SMART CONTRACT SECURITY AUDIT

Megatoken

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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 04.10.2022

Contract Name: **MegaToken**

Deployed address: **0x769Ea00454536eDa0bbE1fc36C1528d744ab304C**

Total Supply: **100,000,000**

Token Tracker: **HPW**

Decimals: **18**

Token holders: **6**

Transactions count: **16**

Top 100 holders dominance: **100%**

Audit Details



Project Name: **Megatoken**

Language: **Solidity**

Compiler Version: **v0.8.13**

Blockchain: **BSC**

Social Profiles

Project Website: <https://megatoken.net/>

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

Project Telegram: <https://t.me/Megatokenhpw>

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

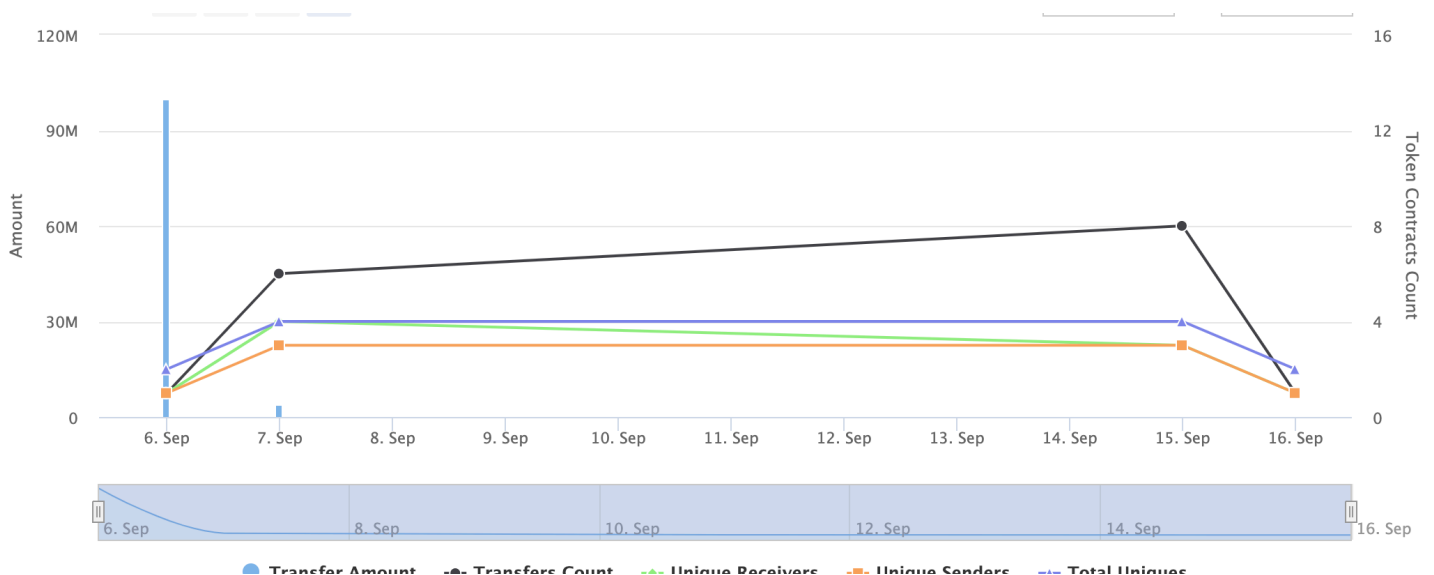
Project Medium: <https://medium.com/@MegaToken>

Project Facebook: <https://www.facebook.com/megatoken.hpw>

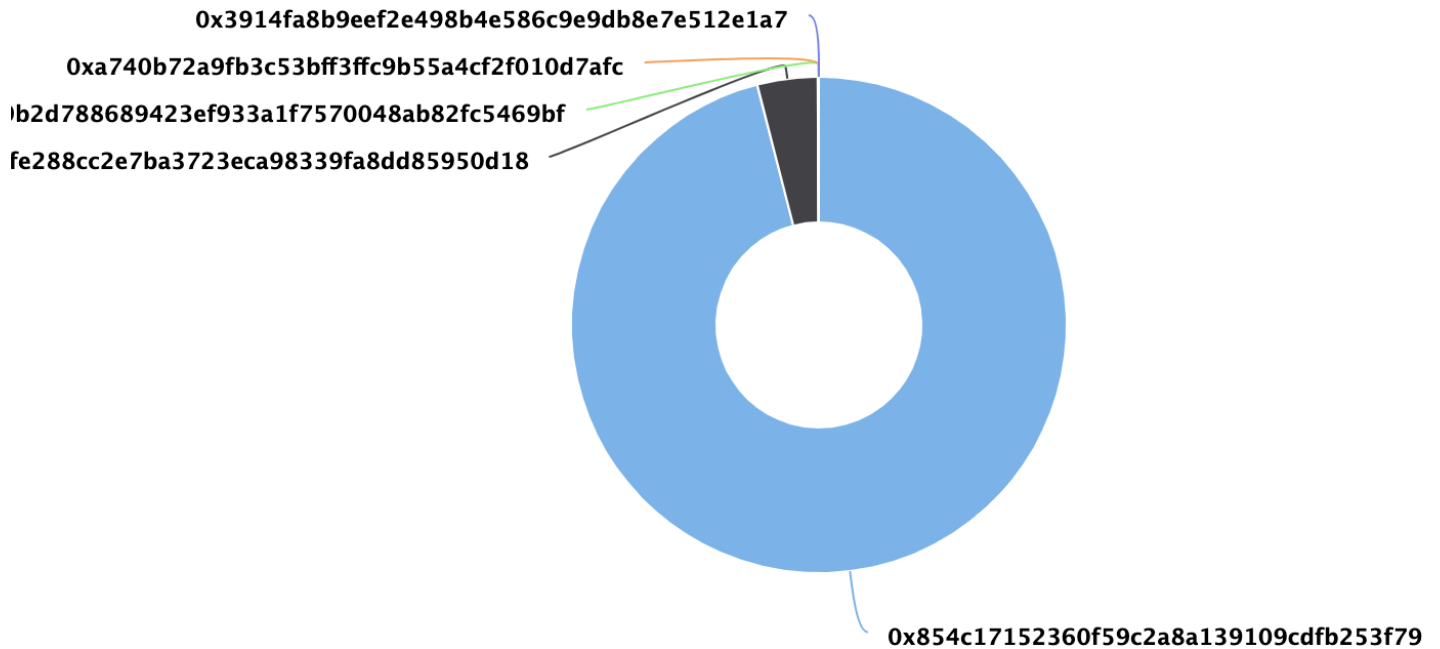
Project LinkedIn: <https://www.linkedin.com/company/mega-token/>

Project Youtube: <https://www.youtube.com/channel/UCtR-ShmGmWn2zhk9InLzfrA>

Contract Analytics



HPW Token Distribution



HPW Top Holders

Rank	Address	Quantity (Token)	Percentage
1	0x854c17152360f59c2a8a139109cdfb253f79246c	96,000,000.029857142857142857	96.0000%
2	0x29ffe288cc2e7ba3723eca98339fa8dd85950d18	3,929,998	3.9300%
3	0x9b2d788689423ef933a1f7570048ab82fc5469bf	59,999.964706050708061701	0.0600%
4	0xa740b72a9fb3c53bff3ffc9b55a4cf2f010d7afc	10,000	0.0100%
5	0x3914fa8b9eef2e498b4e586c9e9db8e7e512e1a7	2	0.0000%
6	0xb3034eecf0efeb304c8809303f26a11c1cd5a388	0.005436806434795442	0.0000%

Swap Analysis

- ✓ Token is sellable (not a honeypot) at this time
- ✓ Buy fee is $\leq 10\%$ (0%)
- ✓ Sell fee is $\leq 10\%$ (0%)

Contract Analysis

- ✓ Verified contract source
- ✗ Source does not contain a mint function
- ✗ Ownership renounced or source does not contain an owner contract.

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 Compiler 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) Presence of overpowered role: Ownable.sol : L54-65

Informational

The overpowered owner (i.e., the person who has too much power) is a project design where the contract is tightly coupled to their owner (or owners); only they can manually invoke critical functions. Due to the fact that this function is only accessible from a single address, the system is heavily dependent on the address of the owner. In this case, there are scenarios that may lead to undesirable consequences for investors, e.g., if the private key of this address is compromised, then an attacker can take control of the contract.

2) Use of Floating Pragma - Informational

Solidity source files indicate the versions of the compiler they can be compiled with using a pragma directive at the top of the solidity file. This can either be a floating pragma or a specific compiler version. The contract was found to be using a floating pragma which is not considered safe as it can be compiled with all the versions described. The following affected files were found to be using floating pragma: / megatoken.sol - ^0.8.0

Conclusion

Informational 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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