

MAY 2019

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**CONTRACT:NRM**

**ADDRESS ETHEREUM MAINNET:**

**0X000000085824F23A070C2474442ED014C0E46B58**



# **SECURITY AUDIT**

## Audit Results

In the NRM Smart-Contracts were found no vulnerabilities and backdoors, the contract matches all standards. So it is safe for use in the Ethereum main network.

Critical vulnerabilities: **0**

Issues that can lead to loss of funds, as well as problems that violate essential functionality of contracts.

Errors and problems: **0**

Issues of logic and functionality of contracts that do not lead to loss of funds.

Optimization: **1**

Opportunities to reduce transaction costs and reduce the number of lines of code.

Notes and recommendations: **1**

Tips and tricks, as well as errors that do not affect the functionality of the Smart-Contract.

## Optimization possibilities:

In the code were found the repetitions of lines of code (lines 110-112, 160-162, 221-224).

It is possible to shorten the code if one extracts these lines to the internal function "\_transfer".

This note does not affect the functionality of Smart-Contract.

Example:

```
9 ▾ function _transfer(address from, address to, uint256 value) internal {
10     require(to != address(0));
11     _balances[from] = _balances[from].sub(value);
12     _balances[to] = _balances[to].add(value);
13     issue Transfer(from, to, value);
14 }
15
16 ...
17 _transfer(msg.sender, to, tokens);
18 ...
```

Notes.

Known issues of ERC20 standard: lack of transaction handling and the potential Re-approval attack. Read more - <https://medium.com/@dexaran820/erc20-token-standard-critical-problems-3c10fd48657b>

Contract description:

The contract is an ERC20 token.

Title: "Neuromachine Eternal".

Abbreviation: "NRM".

Decimals: 18.

Initial supply: 4 958 333 333 tokens.

Additional minting of tokens is impossible.

The burn function of tokens from your address is implemented.

30% (1 487 499 999.9 tokens) are frozen on address 0x0000000000000000000000000000000000000000000000000000000000000007 and available for withdrawal to owner after 28 Jan 2020 00:00:00 GMT.

The following functions are also implemented for the owner:

- The withdrawing of all ERC20 token from the Smart-Contract.
- Sending tokens to a group of addresses (no more than 100) from owner wallet.
- "ApproveAndCall" to interact with Smart-Contracts.
- Transfer of ownership (the next owner must accept the right for a successful transfer).



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This audit is not a call to participate in the project and applies only to the Smart Contract code at the specified address.

