



FAMICHAIN ECO SECURITY AUDIT

\$FME

AN CROSS-CHAIN PROJECT

The FME token used in the FamiChain Network can be used as a native token. This is a project that makes it easier and more economical to transmit and interact with transactions and smart contracts on multi-chains.

BSC Contract: [0xc4aeef93087bb490f5ca89829a26b5ccd023604](#)
Updated: Jan 25, 2023

About FME

This is a document that audits the safety and security of FME tokens on the BSC Network platform. The document is compiled based on the original source code of the token issued and shared publicly on the relevant channels.



Audit Project Name

FamiChain Eco



Audit Contract Address

0xc4AEEAF93087bB490f5ca89829a26B5Ccd023604



Contract Blockchain Network

Binance Smart Chain - BEP20



Project Website

<https://famichain.com>



TokenInfo API

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 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.

CONTRACT DETAILS

Contract name

FamiChainEco

Contract address

0xc4AEEAF93087bB490f5ca89829a26B5Ccd023604

Token symbol

FME

Token supply

365.000.000 FME

Token decimals

BEP20 Standard (18)

Contract deployer address

0x718914A81855B7694275c5Fc452f39613CfA7990

Contract owner address

0x718914A81855B7694275c5Fc452f39613CfA7990

Contract verified time

January 24, 2023 (GMT+ WY, USA)

Swarm Source

ipfs://cc9bba03608d30a6cc46d03f7e2883c6591f5d5ac8
6c8f55acf98176e2bcc534

CONTRACT FUNCTIONS DETAILS

+ Context

- [Int] _msgSender
- [Int] _msgData

+ [Int] IERC20Metadata (IERC20)

- [Ext] name
- [Ext] symbol
- [Ext] decimals

+ [Int] IERC20

- [Ext] totalSupply
- [Ext] balanceOf
- [Ext] transfer # 0xa9059cbb
- [Ext] allowance
- [Ext] approve # 0x095ea7b3
- [Ext] transferFrom # 0x23b872dd

+ Ownable (Context)

- [Pub] <Constructor> #
- [Pub] owner
- [Pub] renounceOwnership # - modifiers: onlyOwner 0x715018a6
- [Pub] transferOwnership # - modifiers: onlyOwner 0xf2fde38b
- [Priv] _setOwner #

+ ERC20 (Context, IERC20, IERC20Metadata)

- [Pub] <Constructor> #
- [Pub] name
- [Pub] symbol
- [Pub] decimals
- [Pub] totalSupply
- [Pub] balanceOf
- [Pub] transfer # 0xa9059cbb
- [Pub] allowance
- [Pub] approve # 0x095ea7b3
- [Pub] transferFrom # 0x23b872dd
- [Pub] increaseAllowance # 0x39509351
- [Pub] decreaseAllowance # 0xa457c2d7
- [Int] _transfer # 0xa9059cbb
- [Int] _burn # 0x42966c68
- [Int] _pause # 0x8456cb59
- [Int] _unpause # 0x3f4ba83a
- [Int] _approve # 0x095ea7b3
- [Int] _beforeTokenTransfer #
- [Int] _afterTokenTransfer #

+ FamiChainEco (ERC20, Ownable)

- [Pub] <Constructor> # - modifiers: ERC20
- [Ext] addAddressToBlacklist # - modifiers: onlyOwner
- [Ext] removeAddressFromBlacklist # - modifiers: onlyOwner
- [Pub] isBlacklisted
- [Int] _beforeTokenTransfer #

(S) = payable function

= non-constant function

ISSUES CHECKING

P.05

Checking request: 8b1a7bedab6de2bd0006e0c3462cd61e16b9988f

| No | Issue description | Result |
|----|---|--------|
| 01 | Compiler errors. | PASSED |
| 02 | Race conditions and Reentrancy. Cross-function race conditions. | PASSED |
| 03 | Possible delays in data delivery. | PASSED |
| 04 | Oracle calls. | PASSED |
| 05 | Front running. | PASSED |
| 06 | Timestamp dependence. | PASSED |
| 07 | Integer Overflow and Underflow. | PASSED |
| 08 | DoS with Revert. | PASSED |
| 09 | DoS with block gas limit. | PASSED |
| 10 | Methods execution permissions. | PASSED |
| 11 | Economy model of the contract. | PASSED |
| 12 | The impact of the exchange rate on the logic. | PASSED |
| 13 | Private user data leaks. | PASSED |
| 14 | Malicious Event log. | PASSED |
| 15 | Scoping and Declarations. | PASSED |
| 16 | Uninitialized storage pointers. | PASSED |
| 17 | Arithmetic accuracy. | PASSED |
| 18 | Design Logic. | PASSED |
| 19 | Cross-function race conditions. | PASSED |
| 20 | Safe Open Zeppelin contracts implementation and usage. | PASSED |
| 21 | Fallback function security. | PASSED |

Blacklisted address can transfer approved tokens using transferFrom() function.
Only Owner can add/remove blacklisted addresses.

FamiChain Audit Verifier

FamiChain CTO

Jason