



TechRate
AUDIT COMPANY

Smart Contract Security Audit

TechRate

November, 2021

Audit Details



Audited project

MarsX



Deployer address

0x2680294a92355cc4c4893695bcf85faf18004459



Client contacts:

MarsX team



Blockchain

Ethereum



Project website:

www.marsxtoken.com

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.

Background

TechRate was commissioned by MarsX to perform an audit of smart contracts:

<https://etherscan.io/address/0xe0df31d06d72b2f5231489af0edc422b372f49f1#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 used to 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.

Contracts Details

Token contract details for 09.11.2021

Contract name	MarsX
Contract address	0xE0dF31d06d72b2f5231489AF0edc422B372F49f1
Total supply	227,936,637
Token ticker	MX
Decimals	18
Token holders	509
Transactions count	1,627
Top 100 holders dominance	87.19%
Contract deployer address	0x2680294a92355cc4c4893695bcf85faf18004459
Contract's current owner address	0x00

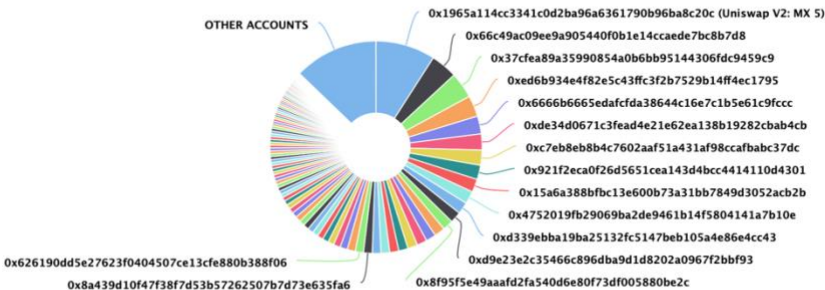
MarsX Token Distribution

The top 100 holders collectively own 87.19% (198,746,300.45 Tokens) of MarsX

Token Total Supply: 227,936,637.00 Token | Total Token Holders: 509

MarsX Top 100 Token Holders

Source: Etherscan.io



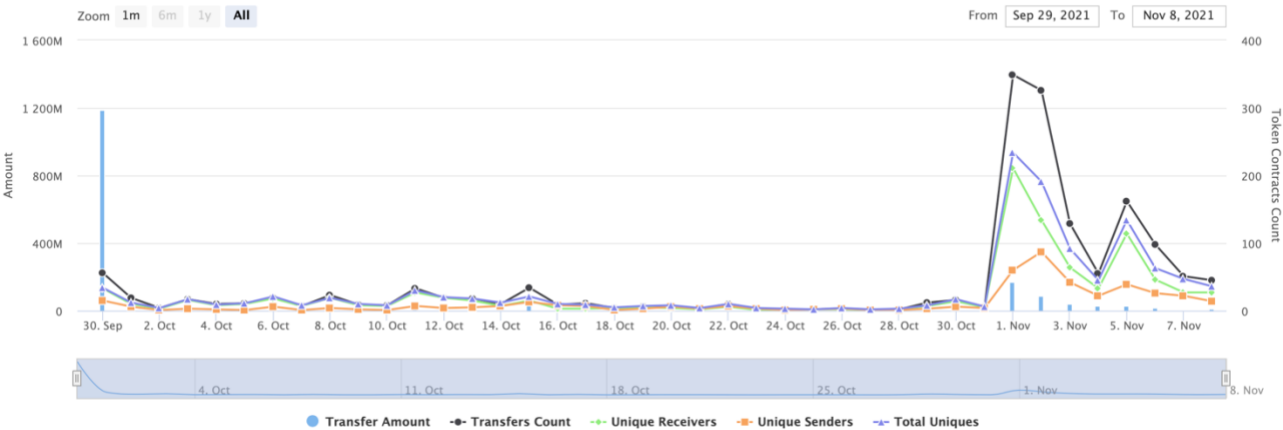
(A total of 198,746,300.45 tokens held by the top 100 accounts from the total supply of 227,936,637.00 token)

MarsX Contract Interaction Details


Time Series: Token Contract Overview

Thu 30, Sept 2021 - Mon 8, Nov 2021

Token Contract 0xe0df31d06d72b2f5231489af0edc422b372f49f1 (MarsX)
Source: Etherscan.io



MarsX Top 10 Token Holders

Rank	Address	Quantity (Token)	Percentage
1	 Uniswap V2: MX 5	20,688,834.622153724248877886	9.0766%
2	0x66c49ac09ee9a905440f0b1e14ccaede7bc8b7d8	9,215,811.351256638674898255	4.0431%
3	0x37cea89a35990854a0b6bb95144306fdc9459c9	9,000,943.243716806625508725	3.9489%
4	0xed6b934e4f82e5c43ffc3f2b7529b14ff4ec1795	7,311,928.051839927084361914	3.2079%
5	0x666b6665edafcfda38644c16e7c1b5e61c9fcc	6,200,783.614355720285413065	2.7204%
6	0xde34d0671c3fead4e21e62ea138b19282cbab4cb	5,536,609.106055516045595959	2.4290%
7	0xc7eb8eb8b4c7602aaf51a431af98ccafbabc37dc	5,269,302.397309998911491646	2.3117%
8	0x921f2eca0f26d5651cea143d4bcc4414110d4301	4,967,980.071739034334130188	2.1795%
9	0x15a6a388bfb13e600b73a31bb7849d3052acb2b	4,532,766	1.9886%
10	0x4752019fb29069ba2de9461b14f5804141a7b10e	4,422,591.360711609042210836	1.9403%



Contract functions details

+ [Lib] SafeMath

- [Int] mul
- [Int] div
- [Int] sub
- [Int] add
- [Int] mod

+ [Int] IERC20

- [Ext] transfer #
- [Ext] approve #
- [Ext] transferFrom #
- [Ext] totalSupply
- [Ext] balanceOf
- [Ext] allowance

+ ERC20 (IERC20)

- [Pub] totalSupply
- [Pub] balanceOf
- [Pub] allowance
- [Pub] transfer #
- [Pub] approve #
- [Pub] transferFrom #
- [Pub] increaseAllowance #
- [Pub] decreaseAllowance #
- [Int] _transfer #
- [Int] _mint #
- [Int] _burn #
- [Int] _approve #
- [Int] _burnFrom #

+ ERC20Detailed (IERC20)

- [Pub] <Constructor> #
- [Pub] name
- [Pub] symbol
- [Pub] decimals

+ MarsX (ERC20, ERC20Detailed)

- [Pub] <Constructor> #
 - modifiers: ERC20Detailed

(\$) = payable function

= non-constant function

Issues Checking Status

Issue description		Checking status
1.	Compiler errors.	Passed
2.	Race conditions and Reentrancy. Cross-function race conditions.	Passed
3.	Possible delays in data delivery.	Passed
4.	Oracle calls.	Passed
5.	Front running.	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.	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

Security Issues

✓ High Severity Issues

No high severity issues found.

✓ Medium Severity Issues

No medium severity issues found.

✓ Low Severity Issues

No low severity issues found.

Conclusion

Smart contracts do not contain high severity issues!

TechRate 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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