



# MOTECH AUDIT

SMART CONTRACT SECURITY AUDIT

**SECURITY ASSESMENT**

## SAFEPAL PROGRESS REPORT

2021

**12 OCT 2021**

## SECURITY ASSESMENT

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## SECURITY ASSESSMENT

# SUMMARY

This report has been prepared for SafePal to discover issues and vulnerabilities in the sourcecode of their “SafePalToken” smart contracts. A comprehensive examination has been performed, utilizing CertiK’s Formal Verification Platform, Static Analysis, and Manual Review techniques.

The auditing process pays special attention to the following considerations:

- Testing the smart contracts against both common and uncommon attack vectors.
- Assessing the codebase to ensure compliance with current best practices and industry standards.
- Ensuring contract logic meets the specifications and intentions of the client.
- Cross referencing contract structure and implementation against similar smart contracts produced by industry leaders.
- Thorough line-by-line manual review of the entire codebase by industry experts.



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# BACKGROUND

MotechAudit was commissioned by SafePal to perform an audit of smart contracts:

<https://bscscan.com/address/0xd41fdb03ba84762dd66a0af1a6c8540ff1ba5dfb>

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.



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# AUDIT DETAILS



## AUDITED PROJECT

SafePal



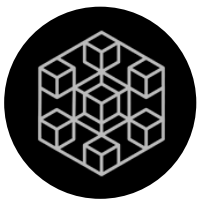
## DEPLOYER ADDRESS

0xBAC93b5b19FeC3D8Da65A81bBf79F23D33A50a2D



## CLIENT CONTACTS:

SafeMoon team



## BLOCKCHAIN

BSC Project



## WEBSITE:

<https://www.safepal.io/>



# SECURITY ASSESSMENT

# 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.



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# CONTRACT DETAILS

### Token contract details for Dec-16-2020

<b>Contract name</b>	<b>SafePal</b>
<b>Contract address</b>	<b>0xD41FDb03Ba84762dD66a0af1a6C8540FF1ba5dfb</b>
<b>Total supply</b>	<b>500,000,000</b>
<b>Token ticker</b>	<b>SafePal Token (SFP)</b>
<b>Decimals</b>	<b>18</b>
<b>Token holders</b>	<b>90,557</b>
<b>Transactions count</b>	<b>1,510,153</b>
<b>Top 100 holders dominance</b>	<b>97.2165%</b>
<b>Contract deployer address</b>	<b>0xBAc93b5b19FeC3D8Da65A81bBf79F23D33A50a2D</b>
<b>Contract's current owner address</b>	<b>0xBAc93b5b19FeC3D8Da65A81bBf79F23D33A50a2D</b>



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## SECURITY ASSESSMENT

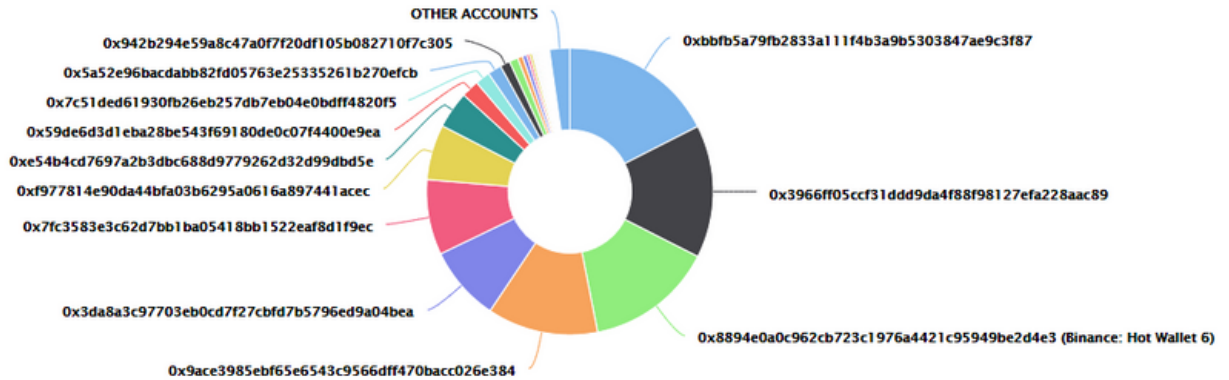
# SAFEPAL TOKEN DISTRIBUTION

The top 100 holders collectively own 97.72% (488,618,198.15 Tokens) of SafePal Token

Token Total Supply: 500,000,000.00 Token | Total Token Holders: 90,559

### SafePal Token Top 100 Token Holders

Source: BscScan.com



(A total of 488,618,198.15 tokens held by the top 100 accounts from the total supply of 500,000,000.00 token)

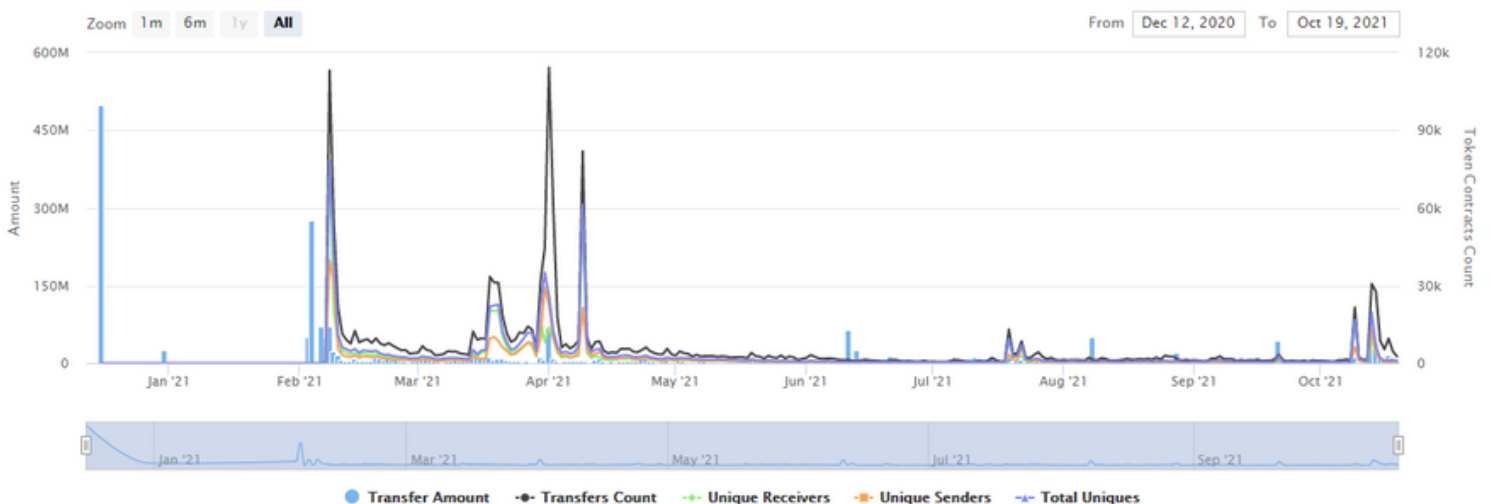
## SAFEPAL TOKEN CONTRACT INTERACTION DETAILS

Time Series: Token Contract Overview

Wed 16, Dec 2020 - Tue 19, Oct 2021

Token Contract 0xd41fdb03ba84762dd66a0af1a6c8540ff1ba5dfb (SafePal Token)

Source: BscScan.com



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## SECURITY ASSESSMENT

# TOP 10 TOKEN HOLDERS

Rank	Address	Quantity	Percentage	Value	Analytics
1	<a href="#">0xbbfb5a79fb2833a111f4b3a9b5303847ae9c3f87</a>	87,500,000	<a href="#">17.5000%</a>	\$160,493,515.07	<a href="#">Analytics</a>
2	<a href="#">0x3966ff05ccf31ddd9da4f8f98127efa228aac89</a>	75,000,020	<a href="#">15.0000%</a>	\$137,565,906.74	<a href="#">Analytics</a>
3	<a href="#">Binance: Hot Wallet 6</a>	71,973,369.945102259435891372	<a href="#">14.3947%</a>	\$132,014,390.10	<a href="#">Analytics</a>
4	<a href="#">0x9ace3985ebf65e6543c9566dff470bacc026e384</a>	62,500,000	<a href="#">12.5000%</a>	\$114,638,225.05	<a href="#">Analytics</a>
5	<a href="#">0x3da8a3c97703eb0cd7f27cbfd7b5796ed9a04bea</a>	42,368,375	<a href="#">8.4737%</a>	\$77,712,564.93	<a href="#">Analytics</a>
6	<a href="#">0x7fc3583e3c62d7bb1ba05418bb1522eaf8d1f9ec</a>	42,350,131.99963333	<a href="#">8.4700%</a>	\$77,679,103.41	<a href="#">Analytics</a>
7	<a href="#">0xf977814e90da44bfa03b6295a0616a897441acec</a>	31,200,000	<a href="#">6.2400%</a>	\$57,227,401.94	<a href="#">Analytics</a>
8	<a href="#">0xe54b4cd7697a2b3dbc688d9779262d32d99dbd5e</a>	20,833,333.334	<a href="#">4.1667%</a>	\$38,212,741.68	<a href="#">Analytics</a>
9	<a href="#">0x59de6d3d1eba28be543f59180de0c07f4400e9ea</a>	10,000,000	<a href="#">2.0000%</a>	\$18,342,116.01	<a href="#">Analytics</a>
10	<a href="#">0x7c51ded61930fb26eb257db7eb04e0bdf4820f5</a>	8,353,970.599999999565627392	<a href="#">1.6708%</a>	\$15,322,949.79	<a href="#">Analytics</a>

source:<https://bscscan.com/>



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## SECURITY ASSESSMENT

# 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 ASSESSMENT

# 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.

Owner privileges (In the period when the owner is not renounced)

- Issuer can mint any amount of tokens.

- Issuer can burn.

- Owner can edit issuers.



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# SECURITY ASSESSMENT

# CONCLUSION

Smart contracts contain owner privileges!

Motech Audit 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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