



Smart Contract Security Audit

Audit details:

Audited project:	Bpad
Deployer address:	0x6a6ad7876d99a995e7f74ec5d494e16ab86f3af9
Client contacts:	Bpad team
Blockchain:	Binance Smart Chain
Project website:	https://www.bisonpad.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 Bpad to perform an audit of smart contracts:

- <https://bscscan.com/address/0xd119983939abcb3570d671763fe2c9192ee32acd#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 02.05.2021.

Contract name:	Bpad
Contract address:	0xd119983939abcb3570d671763fe2c9192ee32acd
Total supply:	99_000_000_000_000_000_000_000_000
Token ticker:	BPAD
Decimals:	18
Token holders:	1
Transactions count:	1
Top 100 holders dominance:	100 %
Contract deployer address:	0x6a6ad7876d99a995e7f74ec5d494e16ab86f3af9
Contract's current owner address:	0xf18863404ccdb458f15715f89fd74a9f7b2ce48e

Contract functions details

+ SafeMath

- [Pub] safeAdd
- [Pub] safeSub
- [Pub] safeMul
- [Pub] safeDiv

+ [Int] IERC20

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

+ ApproveAndCallFallBack

- [Pub] receiveApproval #

+ Owned

- [Pub] <Constructor> #
- [Pub] transferOwnership #
 - modifiers: onlyOwner
- [Pub] acceptOwnership #

+ Bpad (IERC20, Owned, SafeMath)

- [Pub] <Constructor> #
- [Pub] totalSupply
- [Pub] balanceOf
- [Pub] transfer #
- [Pub] approve #
- [Pub] transferFrom #
- [Pub] allowance
- [Pub] approveAndCall #
- [Ext] <Fallback> (\$)
- [Pub] transferAnyERC20Token #
 - modifiers: onlyOwner

(\$) = 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

1. Known vulnerabilities of ERC-20 token

Issue:

1. There is no zero address checking in transfer functions, so users can send tokens to the zero address.

Recommendation:

Add the zero address checking.

Owner privileges

- ❑ Owner can withdraw any tokens from the contract which were accidentally sent to the contract.

Conclusion

Smart contracts contain low 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.