AuditDefi

SMART CONTRACT AUDIT

Capitalize on the expertise of our smart contract auditors to launch highly secure blockchain applications.

Beat Project Music

SMART CONTRACT AUDIT

KYC

@AuditDefi

SUMMARY

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.

DISCLAIMER: By reading this report or any part of it, you agree to the terms of this disclaimer. If you do not agree to the terms, then please immediately cease reading this report, and delete and destroy any and all copies of this report downloaded ad/or printed by you. This report is provided for information purposes only and on a non-reliance basis, and does not constitute investment advice. No one shall have any right to rely on the report or its contents, and AuditDefi and its affiliates (including holding companies, shareholders, subsidiaries, employees, directors, officers and other representatives) (AuditDefi) owe no duty of care towards you or any other person, nor does AuditDefi make any warranty or representation to any person on the accuracy or completeness of the report. The report is provided "as is", without any conditions, warranties or other terms of any kind except as set out in this disclaimer, and AuditDefi hereby excludes all representations, warranties, conditions and other terms (including, without limitation, the warranties implied by law of satisfactory quality, fitness for purpose and the use of reasonable care and skill) which, but for this clause, might have effect in relation to the report. Except and only to the extent that it is prohibited by law, AuditDefi hereby excludes all liability and responsibility, and neither you nor any other person shall have any claim against AuditDefi, for any amount or kind of loss or damage that may result to you or any other person (including without limitation, any direct, indirect, special, punitive, consequential or pure economic loss or damages, or any loss of income, profits, goodwill, data, contracts, use of money, or business interruption, and whether in delict, tort (including without limitation negligence), contract, breach of statutory duty, misrepresentation (whether innocent or negligent) or otherwise under any claim of any nature whatsoever in any jurisdiction) in any way arising from or connected with this report and the use, inability to use or the results of use of this report, and any reliance on this report.

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:

AuditDefi was commissioned by Beat Project Music to perform an audit of smart contracts:

> BeatProjectMusic.sol

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

AUDIT DETAILS:

Contract name	Beat Project Music
Token ticker	BPM
Contract address	0x605F39e40dd2c71EB9d8542eB221Ab0F D4812E6f
Total supply	100,000,000
Decimals	9
Language	SOLIDITY
Blockchain	Binance smart chain
Compiler	v0.8.4+commit.c7e474f2
Website	https://www.bpmusic.net/
Twitter	https://twitter.com/bpmusicnft
Telegram	https://t.me/beatprojectmusic

PROJECT OVERVIEW:

Beat Project music is an Nft streaming platform designed for musicians and listeners created to generate money for both users and artists; provide a unique and entertaining experience; Through a cycle of tasks, you can collect BPM token, download music content and subscribe to the profile of your favorite artist.

Features:

**BPM will also be transferred to the SOLANA network soon with new utilities ,including gameplay to our entire system.
Beat Project Music, aims to be the first Nft website within the urban music genre, which gives artists the possibility to sell their music generating revenue, followers and fans.
They will be rewarded with a BPM token for fulfilling the tasks stipulated, within our platform. It should be noted that, for free, users can register within Beat Project Music, where performing certain activities, such as playback, tasks, downloads and voting, they can be rewarded with a meticulous amount of token, they can withdraw within a period of 30 days, if desired.
The NFTs, which belong only and exclusively to users, can be marketed within our marketplace or p2p mode with other users. First, BPM will connect to Binance Smart Chain Network, in a second phase will be within the Solana network.**

Tokenomics:

11% BUY/SELL TAX

tokenomics	Allocation	Percentage
Total Supply	100.000.000	100%
reward system	60.000.000	60%
Staking	7.000.000	7%
Private sale	3.000.000	3%
Public Presale	10.000.000	10%
developing	3.000.000	3%
Marketing	4.000.000	4%
Partners	2.000.000	2%
Team	10.000.000	10%
Airdrops	1.000.000	1%

ROADMAP

Q1

- Social networks
- Airdrop
- Marketing
- Web site (beta versión)
- Private Sale
- whitelist
- Public Pre sale
- Coingecko- coinmarketcap

Q2

- NFT's Sale
- Marketplace
- Solana Red
- Launch Web Site oficial
- Collection auction
- NFT's staking

Q3

- Task update
- Podcast session
- Content creator sesión
- Streaming live.
- App

ISSUE CHECKING STATUS

№	Issue description.	Checking status
1	Compiler warnings.	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.	Low
10	Methods execution permissions.	Passed
11	Economy model.	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 Zeppelin module.	Passed
21	Fallback function security.	Passed

SMART CONTRACT - SWC ATTACKS

SWC ID	Description	Verdict
SWC-101	Integer Overflow and Underflow	Passed
SWC-102	Outdated Compiler Version !	!Low
SWC-103	Floating Pragma	Passed
SWC-104	Unchecked Call Return Value	Passed
SWC-105	Unprotected Ether Withdrawal	Passed
SWC-106	Unprotected SELFDESTRUCT Instruction	Passed
SWC-107	Re-entrancy	Passed
SWC-108	State Variable Default Visibility	Passed
SWC-109	Uninitialized Storage Pointer	Passed
SWC-110	Assert Violation	Passed
SWC-111	Use of Deprecated Solidity Functions	Passed
SWC-112	Delegate Call to Untrusted Callee	Passed
SWC-113	DoS with Failed Call	Passed
SWC-114	Transaction Order Dependence	Passed
SWC-115	Authorization through tx.origin	Passed
SWC-116	Block values as a proxy for time	Passed
SWC-117	Signature Malleability	Passed
SWC-118	Incorrect Constructor Name	Passed
SWC-119	Shadowing State Variables	Passed
SWC-120	Weak Sources of Randomness from Chain Attributes	Passed
SWC-121	Missing Protection against Signature Replay Attacks	Passed
SWC-122	Lack of Proper Signature Verification	Passed
SWC-123	Requirement Violation	Passed
SWC-124	Write to Arbitrary Storage Location	Passed
SWC-125	Incorrect Inheritance Order	Passed
SWC-126	Insufficient Gas Griefing	Passed
SWC-127	Arbitrary Jump with Function Type Variable	Passed
SWC-128	DoS With Block Gas Limit	Passed
SWC-129	Typographical Error	Passed
SWC-130	Right-To-Left-Override control character (U+202E)	Passed
SWC-131	Presence of unused variables	Passed
SWC-132	Unexpected Ether balance	Passed
SWC-133	Hash Collisions With Multiple Variable Length Arguments	Passed
SWC-134	Message call with hardcoded gas amount	Passed
SWC-135	Code With No Effects (Irrelevant/Dead Code) !	Passed
SWC-136	Unencrypted Private Data On-Chain	Passed

SMART CONTRACT - RISK STATUS

Risk Severity   **Status**

! Critical   None critical severity issues identified

! High   None high severity issues identified

! Medium   None medium severity issues identified

! Low   1 low severity issue identified

Passed   35 functions and instances verified and passed

OWNER PRIVILEGES

1. approve

2. decreaseAllowance

3. deliver

4. excludeFromFee

5. excludeFromReward

6. includeInFee

7. includeInReward

8. increaseAllowance

9. renounceOwnership

10. setLiquidityFeePercent

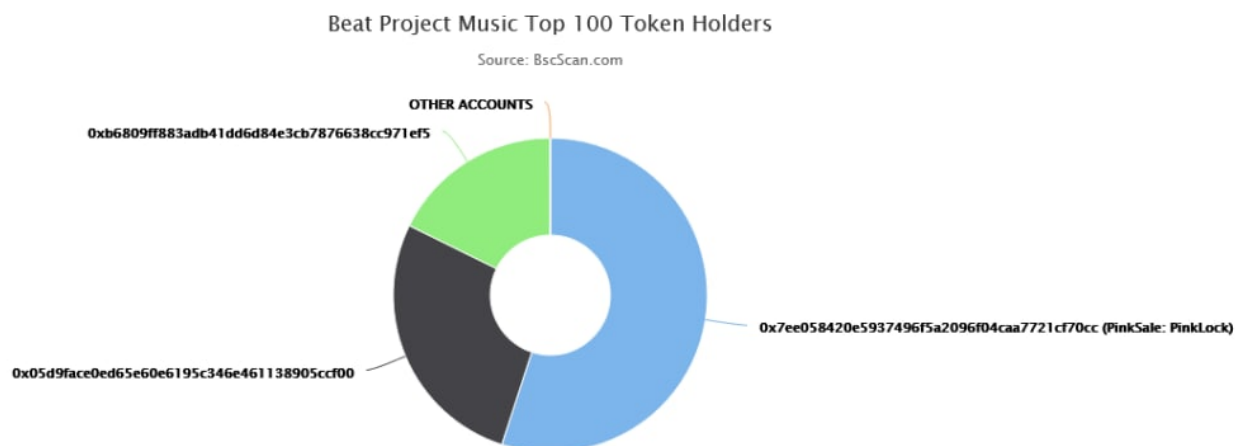11. setSwapAndLiquifyEnabled

12. setTaxFeePercent

13. transfer

14. transferFrom

15. transferOwnership

TOP TOKEN HOLDERS

At the time of the audit

Beat Project Music Top 100 Token Holders
Source: BscScan.com

OTHER ACCOUNTS

0xb6809ff883adb41dd6d84e3cb7876638cc971ef5

0x05d9face0ed65e60e6195c346e461138905ccf00

0x7ee058420e5937496f5a2096f04caa7721cf70cc (PinkSale: PinkLock)

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

Rank	Address	Quantity (Token)	Percentage
1	PinkSale: PinkLock	55,000,000	55.0000%
2	0x05d9face0ed65e60e6195c346e461138905ccf00	27,300,000	27.3000%
3	0xb6809ff883adb41dd6d84e3cb7876638cc971ef5	17,700,000	17.7000%

CONCLUSION

Beat Project Music does not contain any severe issues.

27.5 % OF THE TOTAL SUPPLY IS UNLOCKED
55% OF THE TOTAL SUPPLY IS LOCKED
75% of the Liquidity is Locked for 1 year

Owner is doxxed to RateTech Audit

AuditDefi 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