

Security Assessment

BTC DRAGON

Verified On Feb 19th, 2024

@Vital-Block

@VB_Audit

info@vitalblock.org

www.vitalblock.org



PREPARED FOR:

BTC DRAGON






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INTRODUCTION

Auditing Firm	 VITAL BLOCK SECURITY
Client Firm	 BTC DRAGON
Methodology	Automated Analysis, Manual Code Review.
Language	Solidity
Contract	0x1Ee8a2f28586e542af677eB15Fd00430f98d8fd8
Source Code Light	Verified
License	MIT
Centralization	Active ownership
Compiler Version	v0.8.19+commit.7dd6d404
Blockchain	 BINANCE SMART CHAIN
Website	https://btcdragon.lol/
Telegram Group	https://t.me/+oc0Rh8jxofAzZDM0
Twitter	https://twitter.com/BTCDragonToken
Doc	https://btcdragon.lol/wp-content/uploads/2024/01/BTC-Dragon-Whitepaper-v1.pdf
Prelim Report Date	FEBRUARY 17 th 2024
Final Report Date	FEBRUARY 19 th 2024

 Verify the authenticity of this report on our GitHub Repo: <https://www.github.com/vital-block>



Document Properties


Client	BTC DRAGON
Title	Smart Contract Audit Report
Target	BTC DRAGON
Audit Version	1.0
Author	Akhmetshin Marat
Auditors	Akhmetshin Marat, James BK, Benny Matin
Reviewed by	Dima Meru
Approved by	Prince Mitchell
Classification	Public

Version Info

Version	Date	Author(s)	Description
1.0	February 19 th , 2024	James BK	Final Released
1.0-AP	February 19 TH , 2024	Benny Matin	Release Candidate

Contact

For more information about this document and its contents, please contact Vital Block Security Inc.

Name	Akhmetshin Marat
Phone 	+44 7944 248057
Email	info@vitalblock.org



In the following, we show the specific pull request and the commit hash value used in this audit.

- <https://bscscan.com/address/0x1ee8a2f28586e542af677eb15fd00430f98d8fd8> (GT08590)
- <https://bscscan.com/token/0x1ee8a2f28586e542af677eb15fd00430f98d8fd8#code> (PL4D78)

About Vital Block Security

Vital Block Security provides professional, thorough, fast, and easy-to-understand smart contract security audit. We do in-depth and penetrative static, manual, automated, and intelligent analysis of the smart contract. Some of our automated scans include tools like ConsenSys MythX, Mythril, Slither, Surya. We can audit custom smart contracts, DApps, Rust, NFTs, etc (including the service of smart contract auditing). We are reachable at Telegram (https://t.me/vital_block), Twitter (http://twitter.com/Vb_Audit), or Email (info@vitalblock.org).

Table 1.2: Vulnerability Severity Classification

Impact	High	Medium	Low
	Critical	High	Medium
	High	Medium	Low
	Medium	Low	Low
Likelihood			

Methodology (1)

To standardize the evaluation, we define the following terminology based on the OWASP Risk Rating Methodology [4]:

- Likelihood represents how likely a particular vulnerability is to be uncovered and exploited in the wild;
- Impact measures the technical loss and business damage of a successful attack;
- Severity demonstrates the overall criticality of the risk.

SCOPE OF WORK

Vital Block was consulted by **BTC DRAGON** to conduct the smart contract audit of its Rust source code. The audit scope of work is strictly limited to mentioned .Rust file only:

O.BTCDRAGON.Sol

 External contracts and/or interfaces dependencies are not checked due to being out of scope.

Verify audited contract code Repo.

Public Contract Link

<https://bscscan.com/token/0x1ee8a2f28586e542af677eb15fd00430f98d8fd8#code>



AUDIT METHODOLOGY

Smart contract audits are conducted using a set of standards and procedures. Mutual collaboration is essential to performing an effective smart contract audit. Here's a brief overview of Vital Block Security auditing process and methodology:

CONNECT

- The onboarding team gathers source codes, and specifications to make sure we understand the size, and scope of the smart contract audit.

AUDIT

- Automated analysis is performed to identify common contract vulnerabilities. We may use the following third-party frameworks and dependencies to perform the automated analysis:
 - Remix IDE Developer Tool
 - Open Zeppelin Code Analyzer
 - SWC Vulnerabilities Registry
 - DEX Dependencies, e.g., Pancakeswap, Uniswap
- Simulations are performed to identify centralized exploits causing contract and/or trade locks.
- A manual line-by-line analysis is performed to identify contract issues and centralized privileges.

We may inspect below mentioned common contract vulnerabilities, and centralized exploits:

Centralized Exploits	<ul style="list-style-type: none">○ Token Supply Manipulation○ Access Control and Authorization○ Assets Manipulation○ Ownership Control○ Liquidity Access○ Stop and Pause Trading○ Ownable Library Verification
----------------------	---

Common Contract Vulnerabilities

- **Integer Overflow**
- **Lack of Arbitrary limits**
- **Incorrect Inheritance Order**
- **Typographical Errors**
- **Requirement Violation**
- **Gas Optimization**
- **Coding Style Violations**
- **Re-entrancy**
- **Third-Party Dependencies**
- **Potential Sandwich Attacks**
- **Irrelevant Codes**
- **Divide before multiply**
- **Conformance to Solidity Naming Guides**
- **Compiler Specific Warnings**
- **Language Specific Warnings**

REPORT

- **The auditing team provides a preliminary report specifying all the checks which have been performed and the findings thereof.**
- **The client's development team reviews the report and makes amendments to the codes.**
- **The auditing team provides the final comprehensive report with open and unresolved issues.**

PUBLISH

- **The client may use the audit report internally or disclose it publicly.**


 **It is important to note that there is no pass or fail in the audit, it is recommended to view the audit as an unbiased assessment of the safety of solidity codes.**








Table 1.0 The Full Audit Checklist

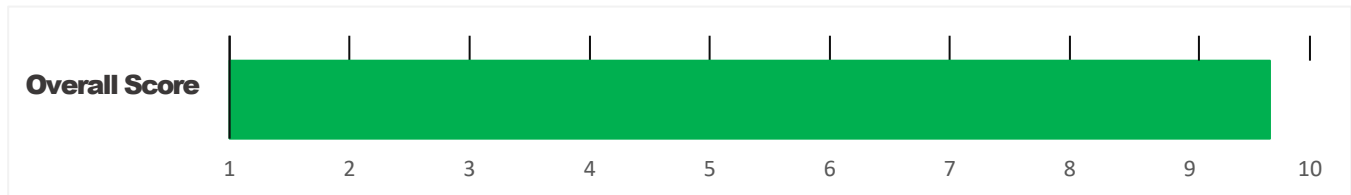
Category	Checklist Items
Basic Coding Bugs	Constructor Mismatch
	Ownership Takeover
	Redundant Fallback Function
	Overflows & Underflows
	Reentrancy
	Money-Giving Bug
	Blackhole
	Unauthorized Self-Destruct
	Revert DoS
	Unchecked External Call
	Gasless Send
	Send Instead Of Transfer
	Costly Loop
	(Unsafe) Use Of Untrusted Libraries
	(Unsafe) Use Of Predictable Variables
	Transaction Ordering Dependence
	Deprecated Uses
Semantic Consistency Checks	Semantic Consistency Checks
Advanced DeFi Scrutiny	Business Logics Review
	Functionality Checks
	Authentication Management
	Access Control & Authorization
	Oracle Security
	Digital Asset Escrow
	Kill-Switch Mechanism
	Operation Trails & Event Generation
	ERC20 Idiosyncrasies Handling
	Frontend-Contract Integration
	Deployment Consistency
	Holistic Risk Management
Additional Recommendations	Avoiding Use of Variadic Byte Array
	Using Fixed Compiler Version
	Making Visibility Level Explicit
	Making Type Inference Explicit
	Adhering To Function Declaration Strictly
	Following Other Best Practices

EXECUTIVE SUMMARY

Vital Block Security has performed the automated and manual analysis of the **BTC DRAGON** Sol code. The code was reviewed for common contract vulnerabilities and centralized exploits. Here's a quick audit summary:

Status	Critical ! 	Major " 	Medium # 	Minor \$ 	Unknown % 
Open	0	0	0	1	1
Acknowledged	0	0	0	2	0
Resolved	0	0	1	0	3
Noteworthy OnlyOwner Privileges					
Set Taxes and Ratios, Airdrop, Set Protection Settings, Set Reward Properties, Set Reflector Settings, Set Swap Settings, Set Pair and Router					

BTC DRAGON Smart contract has achieved the following score: **98.0**



i Please note that smart contracts deployed on blockchains aren't resistant to exploits, vulnerabilities and/or hacks. Blockchain and cryptography assets utilize new and emerging technologies. These technologies present a high level of ongoing risks. For a detailed understanding of risk severity, source code vulnerability, and audit limitations, kindly review the audit report thoroughly.

i Please note that centralization privileges regardless of their inherited risk status - constitute an elevated impact on smart contract safety and security.



CENTRALIZED PRIVILEGES

Centralization risk is the most common cause of cryptography asset loss. When a smart contract has a privileged role, the risk related to centralization is elevated.

There are some well-intended reasons have privileged roles, such as:

- **Privileged roles can be granted the power to `pause()` the contract in case of an external attack.**
- **Privileged roles can use functions like, `include()`, and `exclude()` to add or remove wallets from fees, swap checks, and transaction limits. This is useful to run a presale and to list on an exchange.**

Authorizing privileged roles to externally-owned-account (EOA) is dangerous. Lately, centralization-related losses are increasing in frequency and magnitude.

- **The client can lower centralization-related risks by implementing below mentioned practices:**
- **Privileged role's private key must be carefully secured to avoid any potential hack.**
- **Privileged role should be shared by multi-signature (multi-sig) wallets.**
- **Authorized privilege can be locked in a contract, user voting, or community DAO can be introduced to unlock the privilege.**
- **Renouncing the contract ownership, and privileged roles.**
- **Remove functions with elevated centralization risk.**






 Understand the project's initial asset distribution. Assets in the liquidity pair should be locked.

Assets outside the liquidity pair should be locked with a release schedule.



RISK CATEGORIES

Smart contracts are generally designed to hold, approve, and transfer tokens. This makes them very tempting attack targets. A successful external attack may allow the external attacker to directly exploit. A successful centralization-related exploit may allow the privileged role to directly exploit. All risks which are identified in the audit report are categorized here for the reader to review:

Risk Type	Definition
Critical ! 	These risks could be exploited easily and can lead to asset loss, data loss, asset, or data manipulation. They should be fixed right away.
Major " 	These risks are hard to exploit but very important to fix, they carry an elevated risk of smart contract manipulation, which can lead to high-risk severity.
Medium # 	These risks should be fixed, as they carry an inherent risk of future exploits, and hacks which may or may not impact the smart contract execution. Low-risk re-entrancy-related vulnerabilities should be fixed to deter exploits.
Minor \$ 	These risks do not pose a considerable risk to the contract or those who interact with it. They are code-style violations and deviations from standard practices. They should be highlighted and fixed nonetheless.
Unknown % 	These risks pose uncertain severity to the contract or those who interact with it. They should be fixed immediately to mitigate the risk uncertainty.

All statuses which are identified in the audit report are categorized here for the reader to review:

Status Type	Definition
Open	Risks are open.
Acknowledged	Risks are acknowledged, but not fixed.
Resolved	Risks are acknowledged and fixed.



Key Findings






Overall, these contracts are well-designed and engineered, though the implementation can be improved by resolving the identified issues (shown in Table 2.1), 2 medium-severity vulnerabilities, 3 low-severity vulnerabilities, and 2 informational recommendations.

Table 2.1: Key **BTC DRAGON** Audit Findings

ID	Severity	Title	Category	Status
BTD-001	Informational	In updateForMinter , the following equation is used inside an unchecked block	Coding Practice	Fixed
BTD-002	Low	In updateFormapping , the following equation is used inside an unchecked block	Business Logic	Fixed
BTD-003	Low	In updateForAmount, Relevant Function Snippet	Coding Practice	Fixed
BTD-004	Informational	In updateForOwner, Relevant Function Snippet	Coding Practice	Fixed

Beside the identified issues, we emphasize that for any user-facing applications and services, it is always important to develop necessary risk-control mechanisms and make contingency plans, which may need to be exercised before the mainnet deployment. The risk-control mechanisms should kick in at the very moment when the contracts are being deployed on mainnet. Please refer to page 10 for details.

AUTOMATED ANALYSIS

Symbol	Definition
	Function modifies state
	Function is payable
	Function is internal
	Function is private
	Function is important

```

| **BTC DRAGON** | Interface | |||
| L | totalSupply | External ! | ! | NO ! |
| L | decimals | External ! | ! | NO ! |
| L | symbol | External ! | ! | NO ! |
| L | name | External ! | ! | NO ! |
| L | getOwner | External ! | | NO ! |
| L | balanceOf | External ! | ! | NO ! |
| L | transfer | External ! | " ! ! | NO ! |
| L | allowance | External ! | ! | NO ! |
| L | approve | External ! | " ! ! | NO ! |
| L | transferFrom | External ! | " | NO ! |
|||||
| **IFactoryV2** | Interface | |||
| L | getPair | External ! | | NO ! |
| L | createPair | External ! | " | NO ! |
|||||
| **IV2Pair** | Interface | |||
| L | factory | External ! | | NO ! |
| L | getReserves | External ! | | NO ! |
| L | sync | External ! | " | NO ! |

```

|||||

| ****IRouter01**** | Interface | |||

| L | factory | External ! | |NO!|

| L | BSC | External ! | |NO!|

| L | addLiquidityBNB | External ! | # |NO!|

| L | addLiquidity | External ! | " |NO!|

| L | swapExacBNBForTokens | External ! | # |NO!|

| L | getAmountsOut | External ! | |NO!|

| L | getAmountsIn | External ! | |NO!|

|||||

| ****IRouter02**** | Interface | IRouter01 |||

| L | swapExactTokensForBNBSupportingFeeOnTransferTokens | External ! | " |NO!|

| L | swapExactBNBForTokensSupportingFeeOnTransferTokens | External ! | # |NO!|

| L | swapExactTokensForTokensSupportingFeeOnTransferTokens | External ! | " ! |NO!|

| L | swapExactTokensForTokens | External ! | " |NO!|

|||||

| ****Protections**** | Interface | |||

| L | checkUser | External ! | " ! |NO!|

| L | setLaunch | External ! | " ! |NO!|

| L | setLpPair | External ! | " ! |NO!|

| L | **BTC DRAGON** | External ! | " |NO!|

| L | removeSniper | External ! | " |NO!|

|||||

| ****Cashier**** | Interface | |||

| L | setRewardsProperties | External ! | " |NO!|

| L | tally | External ! | " |NO!|

| L | load | External ! | # |NO!|

| L | cashout | External ! | " |NO!|

| L | giveMeWelfarePlease | External ! | " |NO!|

| L | getTotalDistributed | External ! | |NO!|

| L | getUserInfo | External ! | |NO!|

| L | getUserRealizedRewards | External ! | |NO!|








```

| L | getPendingRewards | External ! | | NO ! |
| L | initialize | External ! | " | NO ! |
| L | getCurrentReward | External ! | | NO ! |
|||||
| **SOL** | Implementation | SafeMath |||
| L | <Constructor> | Public ! | # | NO ! |
| L | transferOwner | External ! | " | onlyOwner |
| L | renounceOwnership | External ! | " | NO ! |
| L | setOperator | Public ! | " | NO ! |
| L | renounceOriginalDeployer | External ! | " | NO ! |
| L | <Receive Ether> | External ! | # | NO ! |
| L | totalSupply | External ! | | NO ! |
| L | decimals | External ! | | NO ! |
| L | symbol | External ! | | NO ! |
| L | name | External ! | | NO ! |
| L | getOwner | External ! | ! | NO ! |
| L | balanceOf | Public ! | ! | NO ! |
| L | allowance | External ! | ! | NO ! |
| L | approve | External ! | " ! | NO ! |
| L | _approve | Internal $ | " | |
| L | approveContractContingency | Public ! | " ! | onlyOwner |
| L | transfer | External ! | " | NO ! |
| L | transferFrom | External ! | " | NO ! |
| L | setNewRouter | External ! | " | onlyOwner |
| L | setLpPair | External ! | " | onlyOwner |
| L | setInitializers | External ! | " | onlyOwner |
| L | isExcludedFromFees | External ! | | NO ! |
| L | isExcludedFromDividends | External ! | | NO ! |
| L | isExcludedFromProtection | External ! | | NO ! |
| L | setDividendExcluded | Public ! | " | onlyOwner |
| L | setExcludedFromFees | Public ! | " | onlyOwner |

```


OPTIMIZATIONS | BTC DRAGON

ID	Title	Category	Status
BTV	Logarithm Refinement Optimization	Gas Optimization	Acknowledged 
BOP	Checks Can Be Performed Earlier	Gas Optimization	Acknowledged 
BDP	Unnecessary Use Of SafeMath	Gas Optimization	Acknowledged 
BWY	Struct Optimization	Gas Optimization	Acknowledged 
BGT	Unused State Variable	Gas Optimization	Acknowledged 

General Detectors



DoS with Failed Call

This contract uses external calls that may fail, resulting in loss of functionality.



Attention
Required



Misuse of Boolean Constant

The usage of specific true/false values in this contract may lead to errors.



Attention
Required



Division Before Multiplication

The order of operations used may result in a loss of precision.



Attention
Required

- | | |
|--|--|
| ✓ No compiler version inconsistencies found | ✓ No tautologies or contradictions found |
| ✓ No unchecked call responses found | ✓ No faulty true/false values found |
| ✓ No vulnerable self-destruct functions found | ✓ No inaccurate divisions found |
| ✓ No assertion vulnerabilities found | ✓ No redundant constructor calls found |
| ✓ No old solidity code found | ✓ No vulnerable transfers found |
| ✓ No external delegated calls found | ✓ No vulnerable return values found |
| ✓ No external call dependency found | ✓ No uninitialized local variables found |
| ✓ No vulnerable authentication calls found | ✓ No default function responses found |
| ✓ No invalid character typos found | ✓ No missing arithmetic events found |
| ✓ No RTL characters found | ✓ No missing access control events found |
| ✓ No dead code found | ✓ No redundant true/false comparisons found |
| ✓ No risky data allocation found | ✓ No state variables vulnerable through function calls found |
| ✓ No uninitialized state variables found | ✓ No buggy low-level calls found |
| ✓ No uninitialized storage variables found | ✓ No expensive loops found |
| ✓ No vulnerable initialization functions found | ✓ No bad numeric notation practices found |
| ✓ No risky data handling found | ✓ No missing constant declarations found |
| ✓ No number accuracy bug found | ✓ No missing external function declarations found |
| ✓ No out-of-range number vulnerability found | ✓ No vulnerable payable functions found |
| ✓ No map data deletion vulnerabilities found | ✓ No vulnerable message values found |



Vulnerability Run check

BTCDragon / BTCDRAGON

19/02/2024 04:40 AM UTC+8

Contract information

total amount	434460627642.95074
transaction tax	Buy 9.00 %/ Sell 9.00 %
Exchange 1	PancakeV2

Risk detection

✔ Contract source code has been verified

This token contract is open source, please view the contract code for details. Token contracts that do not provide source code are likely to have malicious functions and defraud users of their assets.

✔ no agent

There is no agency in the contract. A proxy contract means that the owner of the contract can modify the functionality of the token and potentially affect the price.

✔ No additional issuance function

The issuance function is transparent or non-existent. Hidden minting may increase the number of tokens in circulation and affect the price of the token.

✔ Contract rights cannot be regained (false abandonment)

If this function exists, it is possible for the project owner to regain ownership even if he abandons it.

✔ Owner cannot change balance

The contract owner does not have the right to modify the token balance of other addresses.



Pixiu Risks

✔ This doesn't seem to be Pixiu

We found no code blocking the token sale.

✔ No transaction cooldown

The token contract does not have a transaction cooling function. If there is a transaction cooling function, users will not be able to sell tokens within a certain period of time or generate blocks after purchasing.

⚠ anti whale

The number of token transactions is limited. The number of scam token transactions may be limited (Pixiu Risk).

✔ No blacklist function

Does not include whitelist functionality.

⚠ Does not contain a whitelist mechanism

There is no whitelisting mechanism included in the contract. If there is a whitelist, some addresses may not be able to trade normally (Pixiu risk).



BTCY-01 Key Findings

Category	Severity ●	Location	Status
Status Mathematical Operations	Low	Btcdragon.sol Contracts – 301-305	Informational

Description

In **updateForMinter**, the following equation is used inside an unchecked block

```
function _mint(address account, uint256 amount) internal override {  
    super._mint(account, amount);  
  
    dividendTracker.setBalance(account, balanceOf(account));  
}
```

Minter can not issue more **BTC DRAGON** Token indefinitely.

Note that as of the date of publishing, the above review reflects the current understanding of known security patterns as they relate to the **BTC DRAGON** contract.

Thus, this enables the approval of a token account for confidential transfers, even if it is associated with a different mint. Ideally, token accounts should only be allowed to hold tokens from the specific mint they are associated with. By not checking the mint consistency, the function effectively approves arbitrary token accounts for confidential transfers. Such unauthorized token have no security and financial implications, as contact has been originally renounced by deployed owner.

Recommendation

Incorporate the following verification within process approve account to confirm that the token account's associated mint aligns with the mint for which the confidential transfer approval is sought.



PNY-02 Key Findings

Category	Severity ●	Target	Status
Business Logic	Medium	Contract/Btcdragon.sol	Fixed

Description

In `updateFormapping`, the following equation is used inside an unchecked block

```
mapping (address => bool) public isExcludedFromFees;  
  
uint16[3] public totalFees;  
bool private _swapping;  
  
IUniswapV2Router02 public routerV2;  
address public pairV2;  
mapping (address => bool) public AMMPairs;  
  
mapping (address => bool) public isExcludedFromLimits;
```

Description

The function `mapping ()` does not have the override specifier. It should be noted that since (a function that overrides only a single interface function does not require the override specifier. However, all other instances of this in the code base contain the override specifier.

Recommendation

We recommend either checking for overflow in this case, or ensuring that the `PairsIn` is close enough it will never cause an overflow

PNY-03 Key Findings

Category	Severity ●	Target	Status
Inconsistency	Informational	Multiple Contracts	Acknowledge

Description

In **updateForAmount**, Relevant Function Snippet

```
function _swapAndLiquify(uint256 tokenAmount) private returns (uint256
leftover) {
    // Sub-optimal method for supplying liquidity
    uint256 halfAmount = tokenAmount / 2;
    uint256 otherHalf = tokenAmount - halfAmount;

    _swapTokensForCoin(halfAmount);

    uint256 coinBalance = address(this).balance;
```

Description

The function **amount0()** does not have the override specifier. It should be noted that since **amount0** > a function That overrides only a single interface function does not require the override specifier. However, all other instances of this in the codebase contain the override specifier

Recommendation

We recommend adding the override specifier to **amount()** or removing the override specifier from all other functions this applies to for consistency.

PNY-04 Key Findings

Category	Severity ●	Target	Status
Coding Practices	low	contracts/Prevail.sol	Informational

Description

In **updateForOwner**, Relevant Function Snippet

```
function updateSwapThreshold(uint16 _swapThresholdRatio) public onlyOwner {
    require(_swapThresholdRatio > 0 && _swapThresholdRatio <= 500,
        swapThresholdRatio = _swapThresholdRatio;

    emit SwapThresholdUpdated(_swapThresholdRatio);
}
_mint(supplyRecipient, 5000000000000 * (10 ** decimals()) / 10);
_transferOwnership(0x6D1827f8d94b76442e2915c508bf5ccE116756A9);
}
```

Description

For Ownership efficiency, the BTC DRAGON is engineered with the reserve cache mechanism, which necessitates the common steps to be followed when operating with the reserve Ownership data in different scenarios, including the tax generation, update, and eventual persistence. The Override privileges of the contract has already been Renounced.

Recommendation

Revise the above functions to following a consistent approach to use the reserve cache mechanism.

Vulnerability Scan

REENTRANCY

✓ No reentrancy risk found

Severity

Major

Confidence Parameter

Certain

Vulnerability Description

✗ **Mintable**: More amount of the **BTC DRAGON** token can **NOT** be minted by a private wallet or contract. (This is Essentially normal for most contracts)

Scanning Line:

```
function _mint(address account, uint256 amount) internal override {
    super._mint(account, amount);

    dividendTracker.setBalance(account, balanceOf(account));
}

function excludeFromFees(address account, bool isExcluded) public
onlyOwner {
    isExcludedFromFees[account] = isExcluded;

    emit ExcludeFromFees(account, isExcluded);
}
```



VERIFIED CONTRACT:

<https://bscscan.com/address/0x1ee8a2f28586e542af677eb15fd00430f98d8fd8>

Audited Files

[BTCDRAGON.sol](#)

Contract Creator Address

0x6D1827f8d94b76442e2915c508bf5ccE116756A9

Deployed Contracts:

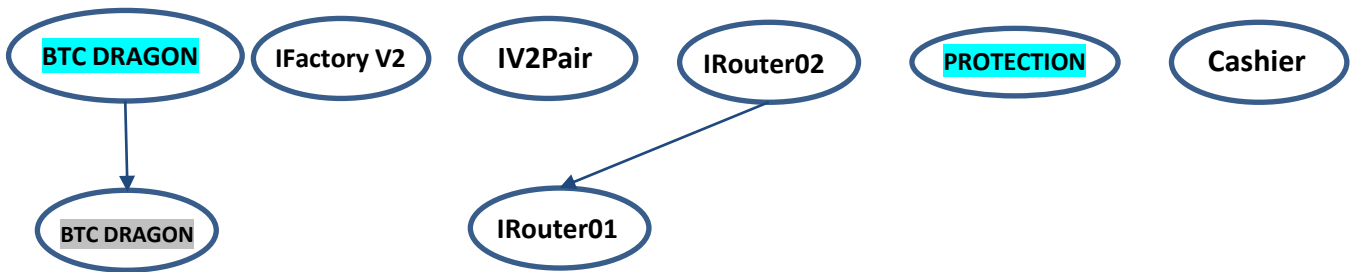
0x1Ee8a2f28586e542af677eB15Fd00430f98d8fd8

Creator TXH Contracts:

<https://bscscan.com/tx/0xd39ad6e938025c26912624d367aea8b86ad23270ba4dd102054541bdf1a1cc8>

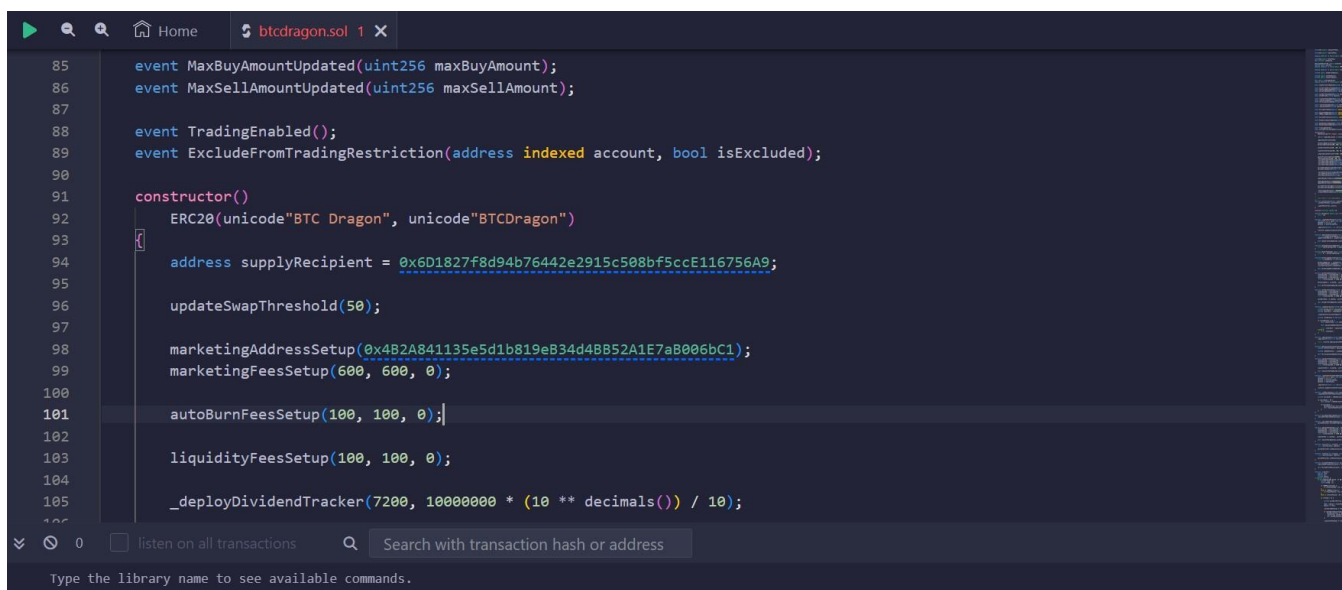


INHERITANCE GRAPH



Identifier	Definition	Severity
CEN-12	Centralization privileges of BTC DRAGON	Medium 🟡

Vulnerability 0 : No important security issue detected.
Threat level: Low



```

85  event MaxBuyAmountUpdated(uint256 maxBuyAmount);
86  event MaxSellAmountUpdated(uint256 maxSellAmount);
87
88  event TradingEnabled();
89  event ExcludeFromTradingRestriction(address indexed account, bool isExcluded);
90
91  constructor()
92  {
93      ERC20(unicode"BTC Dragon", unicode"BTCDragon")
94
95      address supplyRecipient = 0x6D1827f8d94b76442e2915c508bf5ccE116756A9;
96
97      updateSwapThreshold(50);
98
99      marketingAddressSetup(0x4B2A841135e5d1b819eB34d48B52A1E7aB006bC1);
100     marketingFeesSetup(600, 600, 0);
101     autoBurnFeesSetup(100, 100, 0);
102
103     liquidityFeesSetup(100, 100, 0);
104
105     _deployDividendTracker(7200, 10000000 * (10 ** decimals()) / 10);
  
```

ISSUES CHECKING STATUS

Issue Description		Checking Status
1.	Compiler errors.	PASSED
2.	Race Conditions and reentrancy. Cross-Function Race Conditions.	PASSED
3.	Possible Delay In Data Delivery.	PASSED
4.	Oracle calls.	PASSED
5.	Front Running.	PASSED
6.	Sol Dependency.	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 Exchange Rate On the solidity Logic.	PASSED
13.	Private use 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.	Save Upon solidity contract Implementation and Usage.	PASSED
21.	Fallback Function Security	PASSED



AUDIT RESULT

PASSED

SMART CONTRACT AUDIT OF BTC DRAGON

MANUAL REVIEW

\$BTC Dragon is a unique cryptocurrency born from the 2024 Chinese Year of the Dragon. It blends the magic of internet memes with the allure of cryptocurrency rewards. This whitepaper provides a comprehensive understanding of \$BTC Dragon, its tokenomics, and the roadmap for its future growth.

TOKEN NAME: BTC DRAGON

Ticker: BTCDRAGON

DECIMALS: 18

Total Supply: 500.000.000.000

Taxes:

9% : Buy tax (2% reward in BTC ,1% LP, 6% marketing)


9% Sell tax (2% reward in BTC , 1% LP, 6% marketing)








The BTC DRAGON Platform Is Launched On The BSC Network

\$BTC DRAGON

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Introducing \$BTCDragon – Where Meme Magic Meets Crypto Gold! 🐉

Embark on a legendary journey through the crypto realms with \$BTCDragon, the meme coin born in the fiery embrace of the 2024 Chinese Year of the Dragon. But this isn't your ordinary dragon – it's a mythical force that not only breathes fire into memes but showers its holders with the golden essence of BTC rewards!

Identifier	Definition	Severity
CEN-02	Initial asset distribution	Minor 

All of the initially minted assets are sent to the contract deployer when deploying the contract. This is Normal for most deployer and/or contract owner .

```

updateMaxWalletAmount(50000000000 * (10 ** decimals()) / 10);

updateMaxBuyAmount(50000000000 * (10 ** decimals()) / 10);
updateMaxSellAmount(50000000000 * (10 ** decimals()) / 10);

excludeFromTradingRestriction(supplyRecipient, true);
excludeFromTradingRestriction(address(this), true);

_mint(supplyRecipient, 500000000000 * (10 ** decimals()) / 10);

```

RECOMMENDATION

Project stakeholders should be consulted during the initial asset distribution process.

RECOMMENDATION

Deployer and/or contract owner private keys are secured carefully.

Please refer to PAGE-7 CENTRALIZED PRIVILEGES for a detailed understanding.

ALLEVIATION

The BTC DRAGON project team understands the centralization risk. Some functions are provided privileged access to ensure a good runtime behavior in the project



References

- 1 MITRE. CWE-1041: Use of Redundant Code. <https://cwe.mitre.org/data/definitions/1041.html>.
- 2 MITRE. CWE-1099: Inconsistent Naming Conventions for Identifiers. <https://cwe.mitre.org/data/definitions/1099.html>.
- 3 MITRE. CWE-561: Dead Code. <https://cwe.mitre.org/data/definitions/561.html>.
- 4 MITRE. CWE-563: Assignment to Variable without Use. <https://cwe.mitre.org/data/definitions/563.html>.
- 5 MITRE. CWE-663: Use of a Non-reentrant Function in a Concurrent Context. <https://cwe.mitre.org/data/definitions/663.html>.
- 6 MITRE. CWE-837: Improper Enforcement of a Single, Unique Action. <https://cwe.mitre.org/data/definitions/837.html>.
- 7 MITRE. CWE-841: Improper Enforcement of Behavioral Workflow. <https://cwe.mitre.org/data/definitions/841.html>.
- 8 MITRE. CWE CATEGORY: Bad Coding Practices. <https://cwe.mitre.org/data/definitions/1006.html>.
- 9 MITRE. CWE CATEGORY: Business Logic Errors. <https://cwe.mitre.org/data/definitions/840.html>.
- 10 MITRE. CWE CATEGORY: Concurrency. <https://cwe.mitre.org/data/definitions/557.html>.
- 11 MITRE. CWE VIEW: Development Concepts. <https://cwe.mitre.org/data/definitions/699.html>.
- 12 OWASP. Risk Rating Methodology. https://www.owasp.org/index.php/OWASP_Risk_Rating_Methodology.



Identifier	Definition	Severity
COD-10	Third Party Dependencies	Minor 

Smart contract is interacting with third party protocols e.g., Pancakeswap router, cashier contract, protections contract. The scope of the audit treats third party entities as black boxes and assumes their functional correctness. However, in the real world, third parties can be compromised, and exploited. Moreover, upgrades in third parties can create severe impacts, e.g., increased transactional fees, deprecation of previous routers, etc.

RECOMMENDATION

Inspect and validate third party dependencies regularly, and mitigate severe impacts whenever necessary.



DISCLAIMERS

Vital Block Security provides the easy-to-understand audit of Solidity, Move and Raw source codes (commonly known as smart contracts).

The smart contract for this particular audit was analyzed for common contract vulnerabilities, and centralization exploits. This audit report makes no statements or warranties on the security of the code. This audit report does not provide any warranty or guarantee regarding the absolute bug-free nature of the smart contract analyzed, nor do they provide any indication of the client's business, business model or legal compliance. This audit report does not extend to the compiler layer, any other areas beyond the programming language, or other programming aspects that could present security risks. Cryptographic tokens are emergent technologies, they carry high levels of technical risks and uncertainty. You agree that your access and/or use, including but not limited to any services, reports, and materials, will be at your sole risk on an as-is, where-is, and as-available basis. This audit report could include false positives, false negatives, and other unpredictable results.

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Vital Block provides intelligent blockchain Security Solutions. We provide solidity and Raw Code Review, testing, and auditing services. We have Partnered with 15+ Crypto Launchpads, audited 50+ smart contracts, and analyzed 200,000+ code lines. We have worked on major public blockchains e.g., Ethereum, Binance, Cronos, Doge, Polygon, Avalanche, Metis, Fantom, Bitcoin Cash, Aptos, Oasis, etc.

Vital Block is Dedicated to Making Defi & Web3 A Safer Place. We are Powered by Security engineers, developers, UI experts, and blockchain enthusiasts. Our team currently consists of 5 core members, and 4+ casual contributors.

Website: <https://Vitalblock.org>

Email: info@vitalblock.org

GitHub: <https://github.com/vital-block>

Telegram (Engineering): https://t.me/vital_block

Telegram (Onboarding): https://t.me/vitalblock_cmo





vital-block



info@vitalblock.org



www.Vitalblock.org



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