

# Smart Contract Security Audit Report

# 

April 2022



## Audit Details



## Audited project

Bezant



## Deployer address

0x67eEd7125ca2b9d1859C4d824a675bD1fa45256d



### Client contacts

Bezant team



## Blockchain

Ethereum



### Website

Not Provided by the Bezant team

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## 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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# Background

### HeckSafe was commissioned by Bezant to perform an audit of smart contracts:

• https://etherscan.io/address/0xe1aee98495365fc179699c1bb3e761fa716bee62#code

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## Contract Details

### Token contract details for 21.04.2022

Contract name	: BezantToken
Contract address	: 0xE1Aee98495365fc179699C1bB3E761FA716beE62
Total supply	: 999,999,820.00000000000000000000000000000000000
Token Ticker	: BZNT
Decimals	: 18
Token Holders	: 3,291
Transactions count	: 32,983
Contract deployer address	: 0x67eEd7125ca2b9d1859C4d824a675bD1fa45256d
Owner address	: 0x67eEd7125ca2b9d1859C4d824a675bD1fa45256d

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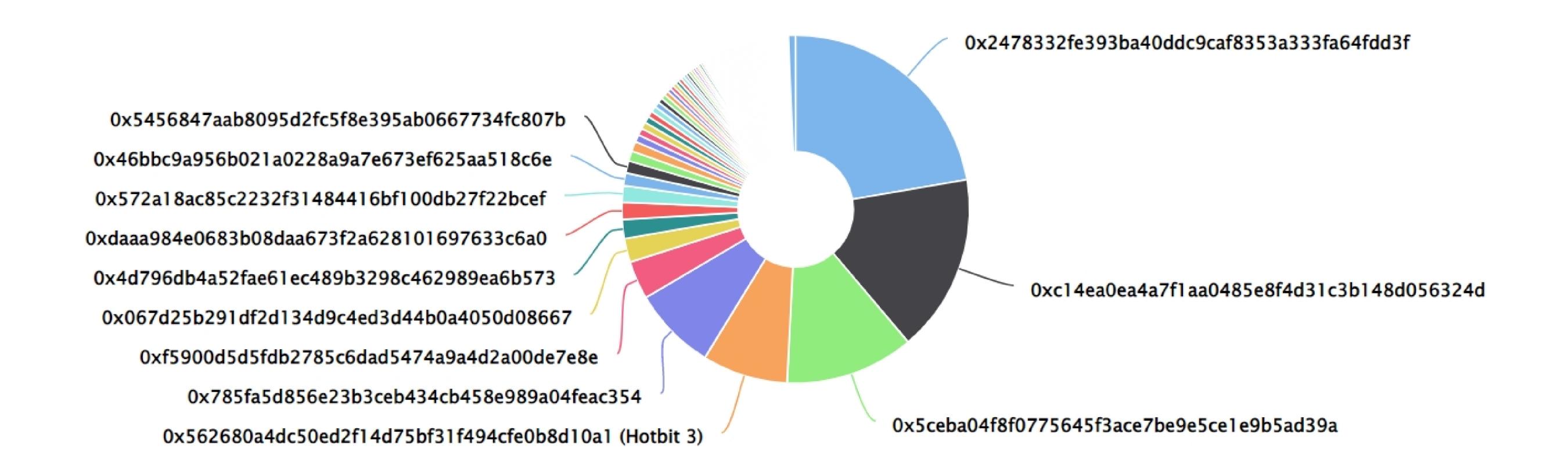
## BezantToken Token Distribution

The top 500 holders collectively own 99.33% (993,324,186.54 Tokens) of BezantToken

▼ Token Total Supply: 999,999,820.00 Token | Total Token Holders: 3,291

#### BezantToken Top 500 Token Holders

Source: Etherscan.io



### BezantToken Top 10 Token Holders

(A total of 771,882,343.42 tokens held by the top 10 accounts from the total supply of 999,999,820.00 token)				
Rank	Address	Quantity (Token)	Percentage	
1	0x2478332fe393ba40ddc9caf8353a333fa64fdd3f	222,784,464.5	22.2785%	
2	0xc14ea0ea4a7f1aa0485e8f4d31c3b148d056324d	165,158,895.54124158286933318	16.5159%	
3	0x5ceba04f8f0775645f3ace7be9e5ce1e9b5ad39a	120,000,000	12.0000%	
4	Hotbit 3	79,643,702.972991858716608281	7.9644%	
5	0x785fa5d856e23b3ceb434cb458e989a04feac354	77,810,229.24895711	7.7810%	
6	0xf5900d5d5fdb2785c6dad5474a9a4d2a00de7e8e	35,488,558	3.5489%	
7	0x067d25b291df2d134d9c4ed3d44b0a4050d08667	22,099,600	2.2100%	
8	0x4d796db4a52fae61ec489b3298c462989ea6b573	17,634,529.91926096	1.7635%	
9	0xdaaa984e0683b08daa673f2a628101697633c6a0	15,762,363.23387347	1.5762%	
10	0x572a18ac85c2232f31484416bf100db27f22bcef	15,500,000	1.5500%	

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## Contract functions details

```
+ Migrations
    -[Pub] Migrations
    -[Pub] transferOwnership
     -modifiers: onlyOwner
+ [Lib] SafeMath
    - [Int] mul
    - [Int] div
    - [Int] sub
    - [Int] add
+ [Int] tokenRecipient
    -[Pub] receiveApproval
+ BezantERC20Base
    -[Pub] BezantERC20Base #
    -[Int] _transfer #
    -[Pub] transfer #
    -[Pub] transferFrom #
    -[Pub] approve #
    -[Pub] approveAndCall #
    -[Pub] burn #
    -[Pub] burnFrom
+ BezantToken (Migrations, BezantERC20Base)
    -[Pub] BezantToken
     -modifiers: onlyOwner, BezantERC20Base
    -[Int] _transfer #
    -[Pub] freezeAccountForOwner #
     -modifiers: onlyOwner
    -[Pub] setManagementContractAddress #
     -modifiers: onlyOwner
    -[Pub] freezeAccountForContract #
```

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# Issues Checking Status

No.	Title	Status
1.	Unlocked Compiler Version	Low issue
2.	Missing Input Validation	Medium issue
3.	Race conditions and Reentrancy. Cross-function race conditions.	Passed
4.	Possible delays in data delivery	Passed
5.	Oracle calls.	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.	Private use data leaks.	Passed
13.	Malicious Event log.	Passed
14.	Scoping and Declarations.	Passed
15.	Uninitialized storage pointers.	Passed
16.	Arithmetic accuracy.	Passed
17.	Design Logic.	Passed
18.	Safe Open Zeppelin contracts implementation and usage.	Passed
19.	Incorrect Naming State Variable	Passed

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# Severity Definitions

Risk Level	Description
Critical	Critical vulnerabilities are usually straightforward to exploit and can lead to assets loss or data manipulations.
High	High-level vulnerabilities are difficult to exploit; however, they also have a significant impact on smart contract execution, e.g., public access to crucial functions
Medium	Medium-level vulnerabilities are important to fix; however, they can't lead to assets loss or data manipulations.
Low	Low-level vulnerabilities are mostly related to outdated, unused, etc. code snippets that can't have a significant impact on execution.

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## Security Issues

### Critical Severity Issues

No critical severity issue found.

### High Severity Issues

No high severity issue found.

### Medium Severity Issues

One medium severity issue found.

### 1. Missing input validation

#### Description

The given input is missing the check for a non-zero address.

#### Location

line no.18

#### Recommendation

We advise adding the check for the passed-in values to prevent unexpected errors as below:

Require(address(0)!= \_new, "\_new initialize to zero address");

#### Low Severity Issues

One low severity issue found.

### 1. Scoping and Declarations.

#### Unused function.

#### Description

The contract utilizes an unlocked compiler version. An unlocked compiler version in the contract's source code permits the user to compile it at or above a particular version. This, in turn, leads to differences in the generated bytecode between compilations due to differing compiler version numbers. This can lead to ambiguity when debugging as compiler-specific bugs may occur in the codebase that would be difficult to identify over a span of multiple compiler versions rather than a specific one.

#### Recommendation

It is advisable that the compiler version is alternatively locked at the lowest version possible so that the contract can be compiled. For example, for version >=0.4.17 the contract should contain the following line:

pragma solidity 0.4.17;

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# Owner Privileges

### Owner Privileges (in the period when the owner is not renounced):

- Bezant Contract:
  - Owner can transfer ownership.
  - Owner can set name of token
  - Owner can freeze account for transferring tokens.
  - Owner can set management contract address.
  - Owner can freeze account for contract.

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## Conclusion

Smart contract contains low and medium severity issues! The further transfer and operations with the fund raised are not related to this particular contract.

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