HackSafe

Smart Contract Security Audit Report

Pride

December 2022

Security Status

★ ★ ★ ★ ⯪

www.hacksafe.io

Audit Details

Audited project
Pride

Deployer address
0xdf6fee057222d2f7933c215c11e5150bd2efc53e

Client contacts
Pride Team

Blockchain
Binance smart chain

Website
Not provided

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.

Procedure

Step 1 - In-Depth Manual Review

Manual line-by-line code reviews to ensure the logic behind each function is sound and safe from various attack vectors. This is the most important and lengthy portion of the audit process (as automated tools often cannot find the nuances that lead to exploits such as flash loan attacks).

Step 2 - Automated Testing

Simulation of a variety of interactions with your Smart Contract on a test blockchain leveraging a combination of automated test tools and manual testing to determine if any security vulnerabilities exist.

Step 3 – Leadership Review

The engineers assigned to the audit will schedule meetings with our leadership team to review the contracts, any comments or findings, and ask questions to further apply adversarial thinking to discuss less common attack vectors.

Step 4 - Resolution of Issues

Consulting with the team to provide our recommendations to ensure the code's security and optimize its gas efficiency, if possible. We assist project team's in resolving any outstanding issues or implementing our recommendations.

Step 5 - Published Audit Report

Boiling down results and findings into an easy-to-read report tailored to the project. Our audit reports highlight resolved issues and any risks that exist to the project or its users, along with any remaining suggested remediation measures. Diagrams are included at the end of each report to help users understand the interactions which occur within the project.

Background

HackSafe was commissioned by Pride perform an audit of smart contracts:

- https://bscscan.com/token/0x97698ACc3141EdF3e9Fa70d20Ca39CF6602990F1#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 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.

Contract Details

Token contract details for 07.12.2022

Token Type	: Utility
Contract name	: CoinToken
Contract address	: 0x97698ACc3141EdF3e9Fa70d20Ca39CF6602990F1
Total supply	: 210,000,000,000
Token ticker	: LGBT
Decimals	: 18
Token Holders	: 136
Transactions count	: 392
Compiler version	: v0.4.24+commit.e67f0147
Contract deployer address	: 0xdf6fee057222d2f7933c215c11e5150bd2efc53e
Owner address	: 0x93a5e50b4fe897d6af5bfb83891926f2b0f244a3

Social profiles

Facebook profile	: https://www.facebook.com/CertifiedPrideToken
Telegram profile	https://t.me/joinchat/8X0UiVh2Rng5NTEx
LinkedIn profile	: https://www.linkedin.com/in/digital-currency-reserve-1b373b223

Audit Summary

According to the standard audit assessment, Customer`s solidity smart contracts are **“Secure”.** This token contract does contain owner control, which do not make it fully decentralized as owner does have control over smart contract.

Insecure	Poor secured	Secure	Well-secured

You are here 

We used various tools like Slither, Mythril and Remix IDE. At the same time this finding is based on critical analysis of the manual audit. All issues found during automated analysis were manually reviewed and applicable vulnerabilities are presented in the issues checking status.

We found 0 critical, 0 high, 0 medium and 2 low.

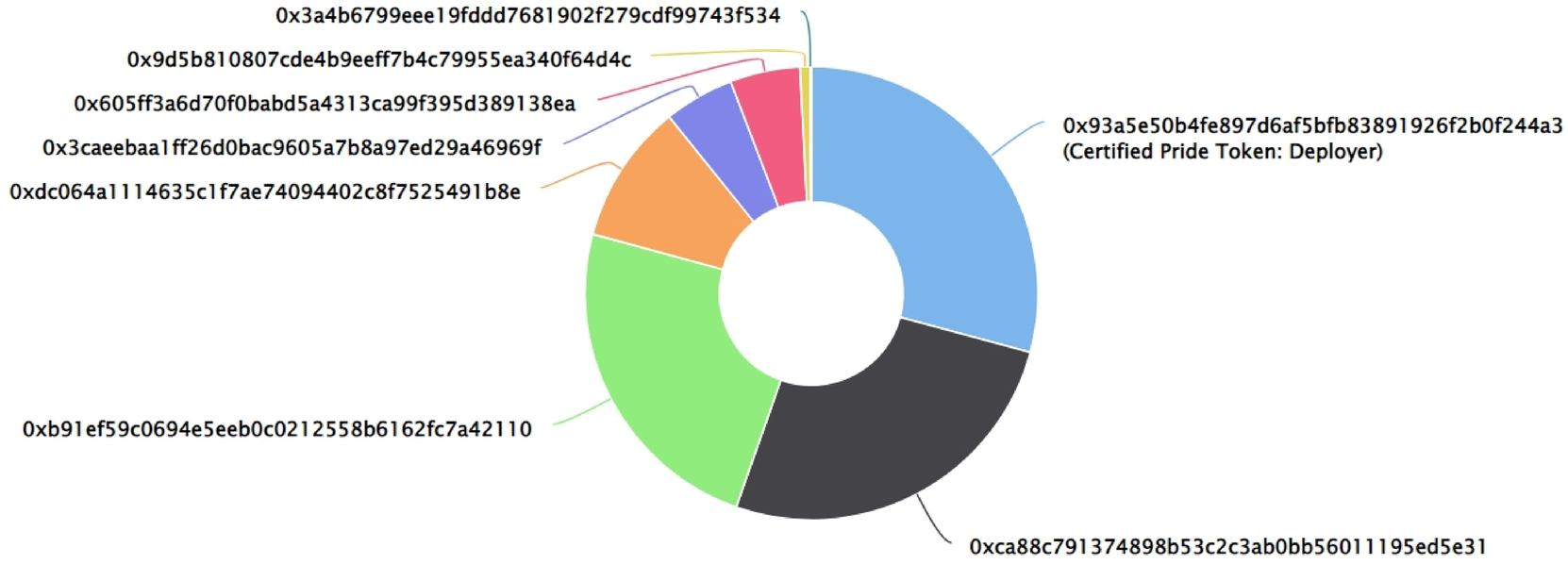
Pride Token Distribution

The top 100 holders collectively own 100.00% (209,999,423,778.77 Tokens) of Pride

Token Total Supply: 210,000,000,000.00 Token | Total Token Holders: 136

Pride Top 100 Token Holders

Source: BscScan.com



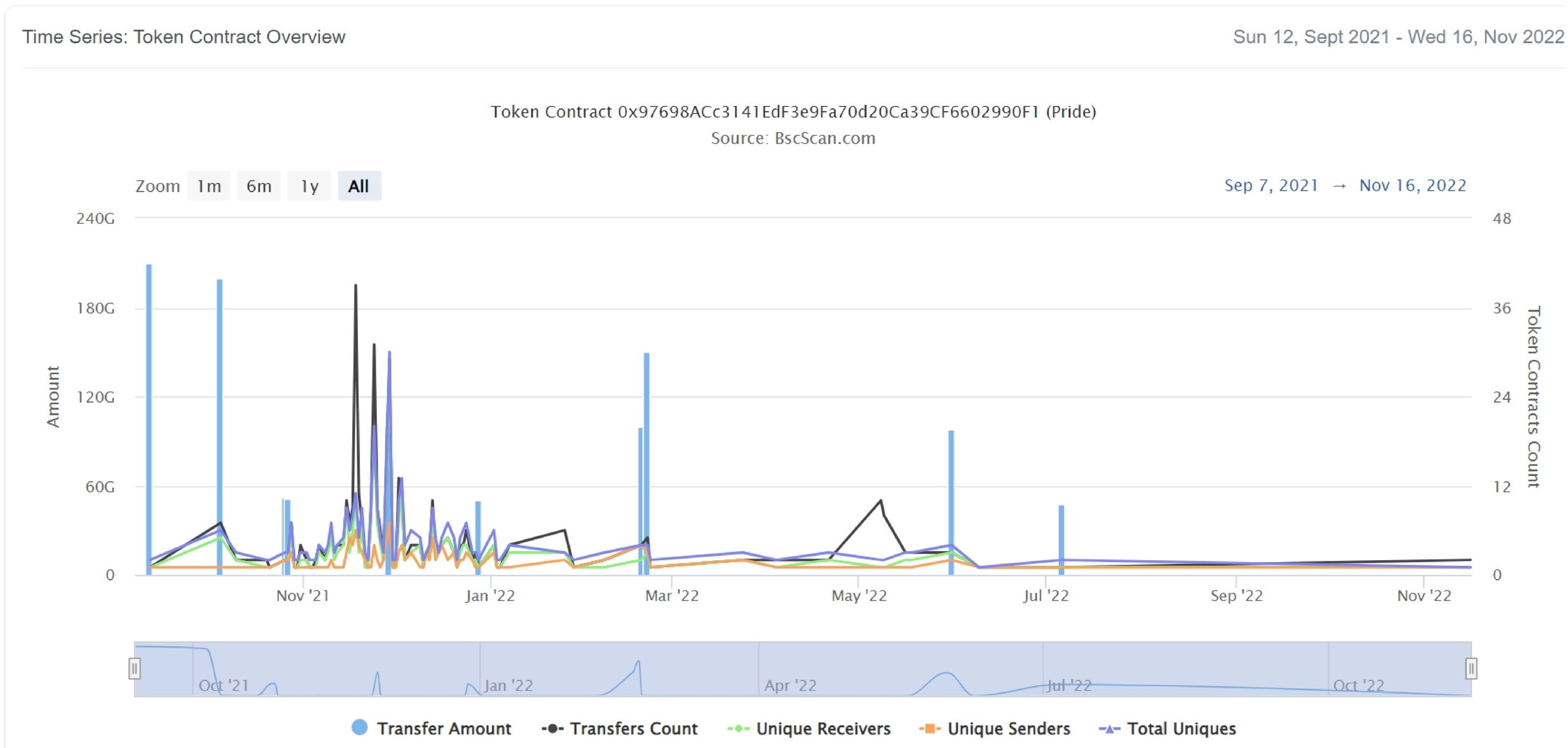
Pride Top 20 Token Holders

(A total of 209,999,423,778.77 tokens held by the top 100 accounts from the total supply of 210,000,000,000.00 token)

Rank	Address	Quantity (Token)	Percentage
1	Certified Pride Token: Deployer	61,329,272,205.267586113897037072	29.2044%
2	0xca88c791374898b53c2c3ab0bb56011195ed5e31	55,000,000,100	26.1905%
3	0xb91ef59c0694e5eeb0c0212558b6162fc7a42110	50,000,000,000	23.8095%
4	0xdc064a1114635c1f7ae74094402c8f7525491b8e	21,000,000,000	10.0000%
5	0x3caeebaa1ff26d0bac9605a7b8a97ed29a46969f	10,500,000,000	5.0000%
6	0x605ff3a6d70f0babd5a4313ca99f395d389138ea	10,500,000,000	5.0000%
7	0x9d5b810807cde4b9eeff7b4c79955ea340f64d4c	1,499,555,240.318127898952239516	0.7141%
8	0x3a4b6799eee19fddd7681902f279cdf99743f534	33,333,333	0.0159%
9	0xeab4fa7066779b1bfa864a0f3cd3036de96f2a97	29,745,333	0.0142%
10	0xec594ef66517f88e20c17fef5cb54e6b4e7dec3a	9,956,000	0.0047%
11	0x39cc8fb33041a15e1e69e0f7943bb2f925dcd943	8,333,333.33	0.0040%
12	0x5b8b23abe90f44d1b18b798ecd419bb29806d4e3	7,681,333	0.0037%
13	0xc60c725b5bc409456ccb726053fc689719c22e13	5,076,880	0.0024%
14	0xfdc7cf227ef4b251e822898e11115efbfec6aba8	5,000,000	0.0024%
15	0x051ae2075b9058e0941ad5d71d26a6b330f44563	4,796,612.851126052771764023	0.0023%
16	0xf2e286f4b04963bbc02a371593e547dbd89b4630	4,176,000	0.0020%
17	0x484c0ef603f3525ebc5ef65daffd73553d1281af	4,032,000	0.0019%
18	0x63f34942b1c995e6711701b7f1b901e7003c2de9	3,360,000	0.0016%
19	PancakeSwap V2: LGBT 44	3,319,809.52498890295442546	0.0016%
20	0xa20c0a3210d0305cf22bc694d2117eb67f7270f3	3,280,000	0.0016%

Pride Token Distribution

Pride Overview



Contract functions details

+[Lib] SafeMath
    -[Int] mul
    -[Int] div
    -[Int] sub
    -[Int] add

+Ownable
    -[Pub] transferOwnership #
      -modifiers: onlyOwner

+Pausable (Ownable)
    -[Pub] pause #
      -modifiers: onlyOwner, whenNotPaused
    -[Pub] unpause #
      -modifiers: onlyOwner, whenPaused

+ERC20Basic
    -[Pub] balanceOf
    -[Pub] transfer

+ERC20 (ERC20Basic)
    -[Pub] allowance
    -[Pub] transferFrom
    -[Pub] approve

+StandardToken (ERC20)
    -[Pub] transfer #
    -[Pub] balanceOf
    -[Pub] transferFrom #
    -[Pub] approve #
    -[Pub] allowance
    -[Pub] increaseApproval #
    -[Pub] decreaseApproval #
    -[Int] _blackList #

+PausableToken (StandardToken, Pausable)
    -[Pub] transfer #
      -modifiers: whenNotPaused
    -[Pub] transferFrom #
      -modifiers: whenNotPaused
    -[Pub] approve #

Contract functions details

```
    -modifiers: whenNotPaused
  -[Pub] increaseApproval #
    -modifiers: whenNotPaused
  -[Pub] decreaseApproval#
    -modifiers: whenNotPaused
      -[Pub] blackListAddress #
        -modifiers: whenNotPaused, onlyOwner

+CoinToken (PausableToken)
      -[Pub] <constructor>
      -[Int] _burn #
      -[Pub] mint #
        -modifiers: onlyOwner

($) = payable function
# = non-constant function
```

Issues Checking Status

No.	Title	Status
1.	Unlocked Compiler Version	Low issue
2.	Missing Input Validation	Passed
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
20.	Too old version	Low issue

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.

Security Issues

- **Critical Severity Issues**
  No critical severity issue found.
- **High Severity Issues**
  No high severity issue found.
- **Medium Severity Issues**
  No medium severity issue found.
- **Low Severity Issues**
  Two low severity issue found.

1. Unlocked Compiler Version.

- **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 ^0.4.24 the contract should contain the following line:

  pragma solidity 0.4.24;

2. Old compiler version

- **Description**

  Contract has been deployed using too old solidity version.

- **Recommendation**

  It is advisable to deploy contract using any of the latest version of solidity.

Centralization

Owner privileges :

- Pride Contract:
    - Owner can transfer ownership.
    - Owner can pause/unpause transfers.
    - Owner can add black list addresses.
    - Owner can mint.

This smart contract has some functions which can be executed by the admin (Owner) only. If the admin wallet private key would be compromised, then it would create trouble, as smart contract ownership has not been renounced.Following are Admin functions:

- transferOwnership
- pause
- unpause
- blacklistAddress
- mint

Conclusion

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

HackSafe 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.