

Shield Protocol Token (SHIELD) security audit, conducted by the Callisto Network Security Department in February 2021.

# **Shield Protocol Token (SHIELD) Specificities**

## **Audit Request**

Shield Protocol smart contract security audit report performed by Callisto Security Audit Department.

#### Website:

https://shieldprotocol.org/

# Shield Protocol Token (SHIELD) Smart Contract Security Audit Report Are Your Funds Safe?

## 1. In scope

• Commit hash f5c1a5d77c158f84889b65a4070f7b80c3cf6898 BinanceSmartChain\_SHIELD.sol

## 2. Findings

In total, 3 issues were reported including:

- 1 low severity issue.
- 2 notes.

No critical security issues were found.

#### 2.1. Known vulnerabilities of BEP-20 / ERC-20 token

Severity: low.

#### **Description:**

1. Lack of transaction handling mechanism issue. WARNING! This is a very common issue and it already caused millions of dollars losses for lots of token users! More details here.

#### **Recommendation:**

Add the following code to the transfer(\_to address, ...) function:

```
require( _to != address(this) );
```

## 2.2. Unnecessary getter functions

Severity: note.

#### **Description:**

The variables \_decimals, \_symbol, \_name declared as \_public \_so compiler create getter function for them. But for those variables already there are getter function decimals(), symbol(), name(). This issue caused higher gas consumption during deployment, but does not impact on contract works.

#### **Recommendation:**

Variable \_decimals , \_symbol , \_name have to be declared as private .

## 2.3. Wrong returns type

Severity: note.

#### **Description:**

The function decimals() returns type uint256 but variable \_decimals has type uint8.

#### **Recommendation:**

The function decimals() has to returns uint8.

#### 3. Conclusion

The audited smart contract can be deployed. Only low severity issus was found during the audit. The pointed notes don't impact on contract works but show the how it has to be by **good practice**.

## 4. Revealing audit reports

https://gist.github.com/danbogd/c3d990fc32ccd1623e2a9898fd636904

https://gist.github.com/MrCrambo/830356e6648f5b7f5f192f4820d625a9

## **Appendix**

Smart Contract Audits by Callisto Network.

#### **Miscellaneous**

Why Audit Smart Contracts?

Our Most Popular Audit Reports.

# Trust the Blockchain, Audit the Smart Contracts.

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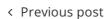








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