



Shield Protocol Token (SHIELD) Security Audit

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 issues were 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

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