

ChainLink Token (LINK) Security Audit Report



ChainLink Token (LINK) security audit, conducted by the Callisto Network Security Department in April 2019.

ChainLink Token (LINK) Specificities

Token Description

Symbol	: LINK
Name	: ChainLink Token
Total supply:	1,000,000,000
Decimals	: 18
Standard	: ERC677

Deployed at:

<https://etherscan.io/address/0x514910771af9ca656af840dff83e8264ecf986ca#code>
(<https://etherscan.io/address/0x514910771af9ca656af840dff83e8264ecf986ca#code>)

Source Code:

<https://gist.github.com/yuriy77k/c3a70d212a7f9ecda715252e45073158>
(<https://gist.github.com/yuriy77k/c3a70d212a7f9ecda715252e45073158>)

Platform:

ETH.

Number of lines:

160.

ChainLink (LINK) Smart Contract Security Audit Report

Are Your Funds Safe?

1. In scope

- LinkToken.sol (<https://gist.github.com/yuriy77k/c3a70d212a7f9ecda715252e45073158>)

2. Findings

In total, **2 issues** were reported including:

- 2 low severity issues.

No critical security issues were found.

2.1. Known vulnerabilities of ERC-20 token

Severity: low.

Description:

- It is possible to double withdrawal attack. More details here (https://docs.google.com/document/d/1YLPtQxZu1UAvO9cZ1O2RPXBbT0mooh4DYKjA_jp-RLM/edit).
- Lack of transaction handling mechanism issue. WARNING! (<https://gist.github.com/Dexaran/ddb3e89fe64bf2e06ed15fbd5679bd20>) This is a very common issue and it already caused millions of dollars losses for lots of token users! More details here (<https://docs.google.com/document/d/1Feh5sP6oQL1-1NHi-X1dbgT3ch2WdhhXRevDN681Jv4/edit>).

Recommendation:



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

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

2.2. No zero address checking

Severity: low.

Description:

- In functions `transfer` (Line 81) and `transferFrom` (Line 118) there are no zero address checking.

Code snippet:

<https://gist.github.com/yuriy77k/c3a70d212a7f9ecda715252e45073158#file-linktoken-sol-L81>

(<https://gist.github.com/yuriy77k/c3a70d212a7f9ecda715252e45073158#file-linktoken-sol-L81>)

<https://gist.github.com/yuriy77k/c3a70d212a7f9ecda715252e45073158#file-linktoken-sol-L118>

(<https://gist.github.com/yuriy77k/c3a70d212a7f9ecda715252e45073158#file-linktoken-sol-L118>)

3. Conclusion

The audited smart contract can be deployed. Only low severity issues were found during the audit.

4. Revealing audit reports

- <https://gist.github.com/yuriy77k/18f0b9562bfba4210550f251d91fe2ca>
(<https://gist.github.com/yuriy77k/18f0b9562bfba4210550f251d91fe2ca>)
- <https://gist.github.com/yuriy77k/6ea910cccecf1c44f93b0551a474db51>
(<https://gist.github.com/yuriy77k/6ea910cccecf1c44f93b0551a474db51>)
- <https://gist.github.com/yuriy77k/6a6833c14f6a688eb142a00fd50630d9>
(<https://gist.github.com/yuriy77k/6a6833c14f6a688eb142a00fd50630d9>)

Appendix

Smart Contract Audits by Callisto Network. (<https://callisto.network/smart-contract-audit/>)

Miscellaneous

Why Audit Smart Contracts? (<https://callisto.network/why-audit-smart-contracts/>)

Our Most Popular Audit Reports. (<https://callisto.network/security-audits/>)

Trust the Blockchain, Audit the Smart Contracts.

Follow Callisto's Security Department on Twitter (https://twitter.com/Callisto_Audits) to get our latest news and updates!



Published on **September 26, 2019**



(<https://callisto.network/chainlink-token-link-security-audit-report/>)

token- token- token- token- token- token-

link- link- link- link- link- link-

securitysecuritysecuritysecuritysecurity-

audit- audit- audit- audit- audit- audit-

report/)report/)report/)report/)report/)

Security Audits (<https://callisto.network/tag/security-audits/>)

< Previous post (<https://callisto.network/yohan-graterol-ama-with-korean-community-on-19-09-2019/>) Next post >

Callisto Network LTD

71-75 Shelton Street
London, Greater London
United Kingdom, WC2H 9JQ

Join Our Community



(<https://t.me/CallistoNet>)



(<https://twitter.com/CallistoSupport>)



(<http://reddit.com/r/CallistoCrypto>)



(https://www.youtube.com/channel/UC1WMae32v_eJ8qOtLQ)



(<https://www.instagram.com/callisto.network/>)



(<https://www.facebook.com/callistonetwork>)



([https://www.linkedin.com/company/callisto-](https://www.linkedin.com/company/callisto-network/)

network/)  (<https://t.co/DAWunSR1tm>)

Resources

FAQ (<https://callisto.network/faq/>)

Timeline (<https://callisto.network/timeline/>)

Callisto

Partners (<https://callisto.network/partners/>)

[Airdrop \(https://callisto.network/callisto-airdrop/\)](https://callisto.network/callisto-airdrop/)

[Community Guidelines](https://callisto.network/community-guidelines/)

[\(https://callisto.network/community-guidelines/\)](https://callisto.network/community-guidelines/)

[Our GitHub repositories](https://github.com/EthereumCommonwealth)

[\(https://github.com/EthereumCommonwealth\)](https://github.com/EthereumCommonwealth) ^

[Media Kit](https://github.com/EthereumCommonwealth/Callisto-Media-Kit)

[\(https://github.com/EthereumCommonwealth/Callisto-Media-Kit\)](https://github.com/EthereumCommonwealth/Callisto-Media-Kit)

[Contact us \(https://callisto.network/contact-us/\)](https://callisto.network/contact-us/)

[Want to sell your CLO coins OTC?](mailto:vladimir.vencalek@invictussolutions.cz)

[\(mailto:vladimir.vencalek@invictussolutions.cz\)](mailto:vladimir.vencalek@invictussolutions.cz)

© Callisto Network 2017-2020