



Jarvis+ Token (JAR) Security Audit



Jarvis + Token (JAR) security audit, conducted by the Callisto Network Security Department in October 2018.

Jarvis + (JAR) Specificities

Audit Request

The ERC20 token in before of the Jarvis+ mainnet, providing exchanges and project participants.

Symbol	: JAR
Name	: Jarvis+ Token
Total supply	: 600,000,000
Decimals	: 18
Standard	: ERC20

Source Code:

https://github.com/x-contract/JarvisPlusToken/blob/master/flats/JarvisPlusToken_flat.sol (https://github.com/x-contract/JarvisPlusToken/blob/master/flats/JarvisPlusToken_flat.sol)

Disclosure policy:

stephen@x-contract.org (<mailto:stephen@x-contract.org>)

Platform:

ETH.

Complexity:

Low.

Jarvis+ Token (JAR) Smart Contract Security Audit Report

Are Your Funds Safe?

1. In scope

JarvisPlusToken_flat.sol (https://github.com/x-contract/JarvisPlusToken/blob/master/flats/JarvisPlusToken_flat.sol) github commit hash b1e9458f8a77fe13d09940547da7824f3066cf17.

2. Findings

In total, 2 issues were reported including:

- 1 low severity issues.
- 1 minor observation.

No critical security issues were found.

2.1. Known vulnerabilities of ERC-20 token

Severity: low.

Description:

1. It is possible to double withdrawal attack. More details here (https://docs.google.com/document/d/1YLPtQxZu1UAvO9cZ1O2RPXBbT0mooh4DYKjA_jp-RLM/edit).
2. 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-X1dbgT3ch2WdhbXRevDN681Jv4/edit>)

Code snippet:

- ERC20Token.sol, line 154
(<https://github.com/vpomo/RapidProfit/blob/f7aa43eff6ba66b8651ab74802823ea5929cc153/contracts/ERC20Token.sol#L154>)

2.2. Extra checking

Severity: minor observation.

Description:

Extra checking in 96, 165, 166 lines of BasicToken and StandardToken contracts. SafeMath library checks it anyway.

Code snippet:

- https://github.com/x-contract/JarvisPlusToken/blob/8dca09084a7e9178ee5770228219bf901ecaf21e/flats/JarvisPlusToken_flat.sol#L96
(<https://github.com/nexofinance/NEXO-Token/blob/master/contracts/NexoToken.sol#L103>)
- https://github.com/x-contract/JarvisPlusToken/blob/8dca09084a7e9178ee5770228219bf901ecaf21e/flats/JarvisPlusToken_flat.sol#L165
(https://github.com/x-contract/JarvisPlusToken/blob/8dca09084a7e9178ee5770228219bf901ecaf21e/flats/JarvisPlusToken_flat.sol#L165)
- https://github.com/x-contract/JarvisPlusToken/blob/8dca09084a7e9178ee5770228219bf901ecaf21e/flats/JarvisPlusToken_flat.sol#L166

(https://github.com/x-contract/JarvisPlusToken/blob/8dca09084a7e9178ee5770228219bf901ecaf21e/flats/JarvisPlusToken_flat.sol#L166)[^]

3. Conclusion

The token contract is safe to be deployed, developers should consider checking ERC20 known issues.

4. Revealing audit reports

- <https://gist.github.com/yuriy77k/6d6b617a907b4454ddf05661d5b66f91>
(<https://gist.github.com/yuriy77k/6d6b617a907b4454ddf05661d5b66f91>)
- <https://gist.github.com/yuriy77k/d1f01c441cb6ac96d25368a25cf4407d>
(<https://gist.github.com/yuriy77k/d1f01c441cb6ac96d25368a25cf4407d>)
- <https://gist.github.com/yuriy77k/141fc6fc44b69cfeb06fe0335c72475d>
(<https://gist.github.com/yuriy77k/141fc6fc44b69cfeb06fe0335c72475d>)

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!

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(<https://callisto.network/callisto-calls-to-action-for-jarvis-plus-token-jar-security-audit/>)

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

< Previous post (<https://callisto.network/dexaran-yohan-graterols-ask-me-anything-with-trust-wallet-on-04-09-2020/>)

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