

Injective Protocol

Security Assessment

September 20th, 2020

For :
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- A document describing in detail an in depth analysis of a particular piece(s) of source code provided to CertiK by a Client.
- An organized collection of testing results, analysis and inferences made about the structure, implementation and overall best practices of a particular piece of source code.
- Representation that a Client of CertiK has indeed completed a round of auditing with the intention to increase the quality of the company/product's IT infrastructure and or source code.

What isn’t a CertiK report?

- A statement about the overall bug free or vulnerability free nature of a piece of source code or any modules, technologies or code it interacts with.
- Guarantee or warranty of any sort regarding the intended functionality or security of any or all technology referenced in the report.
- An endorsement or disapproval of any company, team or technology.

Summaries

Project Summary

Project Name	Injective Protocol
Description	ERC-20 Token
Platform	Ethereum, Solidity
Commit Hash	aa44945b47685ab986bbb21f89120b115f50efd6

Audit Summary

Delivery Date	Sep. 20, 2020
Method of Audit	Static Analysis, Manual Review
Consultants Engaged	1
Timeline	Sep. 19th, 2020 - Sep. 20th 2020

Vulnerability Summary

Total Issues	1
Total Critical	0
Total Major	0
Total Minor	0
Total Informational	1

Findings

ID	Title	Type	Severity
IP-01	Potential Race Condition	Volatile Code	Informational

IP-01: Potential Race Condition

Type	Severity	Location
Volatile Code	Informational	InjectiveToken.sol: Line 7

Description:

The ERC-20 standard inherently possesses a race condition whereby a set amount is approved and the user subsequently decides to update this approval to an increased amount. In the window the transaction that increases the approval is broadcasted, an attacker would be able to fully utilize any remaining allowance as well as the newly set one, thus leading to a type of "double" approval attack.

Recommendation:

This can be mitigated by first ensuring approval has been set to zero before being increased to some other value. Other workarounds also exist and would preferably be applied in this case.