



Injective Protocol

Security Assessment

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For :

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By :

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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.