

Security Review of

Argent RecoveryManager vulnerability fix

June 19, 2020

Argent RecoveryManager vulnerability fix / June 2020

Files in scope

This is a review of a fix to a vulnerability present in Recovery Manager. sol that has been added in this commit:

https://github.com/argentlabs/argent-contracts/commit/268b7ddcd2945e22970b96a8ed7497dc239ea22a

Summary of the vulnerability

The original issue was caused by getRequiredSignatures returning 0 for metatransaction calls to executeRecovery function when the number of guardians was 0 as a result of this calculation: SafeMath.ceil(guardianStorage.guardianCount(_wallet), 2). This is interpreted by the system to mean that anybody can call the executeRecovery when no guardians are present.

Summary of the fix

The issue was fixed by throwing an exception when a call to executeRecovery is attempted with guardians. We confirm the fix is sufficient and doesn't introduce any new issues.