

Security Review of

Gnosis EasyAuction Update

March 2021

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This is an additional audit of minor changes to the code that were introduced after February audit of the same contracts concluded.

Files in scope

Following files in:

<https://github.com/gnosis/ido-contracts/tree/0492099d35e0a0c8afea01bf4544cbbfeff53ffc>

- contracts/allowListExamples/AllowListOffChainManaged.sol
- contracts/wrappers/DepositAndPlaceOrder.sol
- contracts/EasyAuction.sol

Current status

All found issues have been fixed.

Report

Issues

1. Additional orders can be inserted among already processed orders

Severity: medium

Allowing users to submit orders on other people's behalf opens a DoS attack vector. An attacker can front-run user's order by placing an order with the same price, but tiny value on their behalf. This will lead to `IterableOrderedOrderSet.smallerThan` function throwing. Economical viability of such attack depends on the value of `minimumBiddingAmountPerOrder`.

status - fixed

The issue is no longer present in

<https://github.com/gnosis/ido-contracts/tree/daeabebf94ea270e6dbb56e5f8dc78f040d0fffe>