

# **Security Review of**

## ETH flow contracts

October 2022

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## Files in scope

All solidity files in

<https://github.com/cowprotocol/ethflowcontract/tree/5659dfb8553585f2b71abe9abfb3d930bebed181/src>

## Current status

All discovered issues have been fixed by the developer. There are no known issues in the relevant contracts in

<https://github.com/cowprotocol/ethflowcontract/tree/9a3946fc41776bbdc99b1ae53a6488f4e6349478/src>

# Issues

## 1. 0 sellAmount order allows theft of funds

*type: security / severity: critical*

In `CowSwapEthFlow.createOrder` it's possible to submit an order that has: `sellAmount == 0`, `buyAmount == 0`, `feeAmount > 0` and `partiallyFillable == false`. This order will be executable unlimited number of times and each time it will drain feeAmount from the contract.

*status - fixed*

Issue has been fixed and is no longer present in

<https://github.com/cowprotocol/ethflowcontract/tree/9a3946fc41776bbdc99b1ae53a6488f4e6349478/src>