# Reality 3.0 / August 2021

## Files in scope

- https://github.com/RealityETH/monorepo/blob/064855bfd8c80a0bcf3da7b73936ce477e99b635/packages/contracts/development/contracts/RealityETH-3.0.sol
  https://github.com/RealityETH/monorepo/blob/064855bfd8c80a0bcf3da7b73936ce477e99b635/packages/contracts/development/contracts/RealityETH\_ERC20-3.0.sol

### **Current status**

All issues have been fixed by the developer. There are no know issues in  $\underline{ https://github.com/RealityETH/monorepo/blob/e4584d7cf6ab2d9a5b129bd970b7d4517811ae6a}.$ 

#### Issues

### 1. Incorrect bond payout on UNRESOLVED\_ANSWER

type: faulty implementation / severity: medium

When last answer is unrevealed and best answer is UNRESOLVED\_ANSWER, the bond from the unrevealed answer will be paid to address(0) instead of to the winner which would we be the case if the best answer wasn't an UNRESOLVED\_ANSWER.

status - fixed

Issue has been fixed and is no longer present in

 $\underline{https://github.com/RealityETH/monorepo/blob/e4584d7cf6ab2d9a5b129bd970b7d4517811ae6a}$ 

## 2. Arbitration can be initiated even with no valid answer, resulting in premature finalisation after the arbitration is cancelled

type: security / severity: medium

Arbitration can be initiated after an answer commitment is posted, even if no revealed answers have been posted, after this arbitration is cancelled the question will be finalised after finalize ts seconds, even though no answer has been provided. In results all bonds will be paid out to address(0), bounty will become unretrievable and best\_answer will be set to 0.

status - fixed

Issue has been fixed and is no longer present in

https://github.com/RealityETH/monorepo/blob/e4584d7cf6ab2d9a5b129bd970b7d4517811ae6a

## 3. answer\_takeover\_fee credited to second answer depends on the way answers are processed $% \left( 1\right) =\left( 1\right) \left( 1\right$

type: security / severity: medium

In <u>claimWinnings</u> <u>answer\_takeover\_fee</u> is inconsistently calculated, it is being subtracted from <u>bounty</u> if the winning answer and second best answer are processed in one go, but if they are processed separately, the whole <u>bounty</u> amount is reserved for the winner and can't by used for the fee.

status - fixed

Issue has been fixed and is no longer present in

Notes
RealityETH_ERC20-3.0.sol should not be used with ERC20-like token contracts that implement callbacks like ERC777 due to potential reentrancy issues.