

Security Review of

Azuro

January 2023

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Files in scope

Following files in https://github.com/Azuro-protocol/Azuro-v2/tree/52b52a13edc632a88c238ad7669b98e30c896389/contracts:

- libraries/ - AffiliateHelper.sol - CoreTools.sol - FixedMath.sol - Math.sol - SafeCast.sol - utils/ LiquidityTree.sol - OwnableUpgradeable.sol - Access.sol - AzuroBet.sol - Core.sol - CoreBase.sol - Factory.sol - LP.sol - SafeOracle.sol

Current status

All discovered issues have been fixed by the developer. No known issues are present in: $\frac{\text{https://github.com/Azuro-protocol/Azuro-}}{\text{v2/tree/8f9b43887062f36aa4c3910f6a05323a2aa294b3/contracts}}$

Issues

1. Public view function LiquidityTree.getLeavesAmount() returns incorrect value

type: incorrect implementation / severity: minor

LiquidityTree.getLeavesAmount() always returns treeNode[node].amount which means all function arguments except node are effectively ignored.

status - fixed

The function has been removed and the issue is no longer present in: https://github.com/Azuro-protocol/Azuro-v2/tree/8f9b43887062f36aa4c3910f6a05323a2aa294b3/contracts

2. Public view function LiquidityTree.getLeavesAmount() returns incorrect value

type: incorrect implementation / severity: minor

In <u>SafeOracle.createCondition</u> it's possible to set <u>proposeDeadline</u> in the past, either so that the condition is immediately resolvable by the owner, or that <u>applyCancelCondition</u> can be immediately called.

status - fixed

The issue has been fixed and is no longer present in: https://github.com/Azuro-protocol/Azuro-v2/tree/8f9b43887062f36aa4c3910f6a05323a2aa294b3/contracts

3. Public view function LiquidityTree.getLeavesAmount() returns incorrect value

type: incorrect implementation / severity: medium

In SafeOracle conditions can be in a state where both resolveCondition and cancelCondition are callable by the owner and also applyCancelCondition is callable because resolveCondition and cancelCondition are callable even after condition.proposeDeadline + DECISION PERIOD.

status - fixed

The issue has been fixed and is no longer present in: $\frac{https://github.com/Azuro-protocol/Azuro-v2/tree/8f9b43887062f36aa4c3910f6a05323a2aa294b3/contracts$