

**S O L I D I T Y . F I N A N C E**

---

# SOAR - Smart Contract Audit Report

## S U M M A R Y



SOAR is a decentralized framework for liquidity control and a liquidity bootstrapping protocol.

We reviewed SOAR DEX and Liquidity Migrator contracts using code provided to us by the team. That code, in flattened form, is available below. Please note we have not reviewed SOAR's other contracts; though the project's main token contract has been reviewed by the reputable audit firm, Hacken.

Please review our Terms & Conditions, Privacy Policy, and other legal information [here](#). By using this site, you explicitly agree to these terms.

- *The SoarSwap DEX is based on the battle-tested Uniswap codebase.*
- *The Factory contract will allow users to create liquidity pairs for any token, thereby enabling trading on the platform.*
- *The Router contract routes orders to the user-determined pair contract to swap assets.*
- *The liquidity provider fee for token swaps is 0.3% of the value transacted.*
- *When dealing with tokens that have a fee-on-transfer, the estimated output does not properly subtract the fee. As a result, users of fee-on-transfer tokens must set a slippage percentage prior to executing trades.*

#### *Notes on the Liquidity Migrator:*

- *The purpose of the Liquidity Migrator contract is to migrate liquidity provided on Uniswap for other projects to provide liquidity for SOAR.*
- *LP tokens representing liquidity in other projects can be used by this contract to migrate those funds to provide liquidity for SOAR.*
- *When a user sends their LP tokens to this contract using the migrate() function, their liquidity will be withdrawn in the form of the project token liquidity was provided for, and ETH.*
- *If the prior project tokens can be sold for more than the MIN\_FTH*

Please review our Terms & Conditions, Privacy Policy, and other legal information [here](#). By using this site, you explicitly agree to these terms.

*be returned to the function caller.*

- *Half of the ETH from this process will then be used to purchase SOAR tokens; and the combination of the remaining ETH and SOAR will be added to the SOAR liquidity pool.*
- *Finally, the SOAR LP tokens created as a result of this process will be delivered to the caller.*
- *The contract utilizes SafeMath and SafeERC20 to prevent overflow issues and ensure safe transfers.*
- *Users can provide a slippage amount in order to ensure that fee-on-transfer tokens can be migrated.*
- *It is important to note that the liquidity migrator will only work with LP tokens that provide for ETH as one of the liquidity pair components.*
- *Large migrations of liquidity may have a negative price impact, though the amount of liquidity available will increase.*
- *No ownership-restricted functions are present.*
- *The team has worked with us to improve the user experience of this contract.*

### **Audit Findings Summary**

- *No issues from external attackers were identified*

Please review our Terms & Conditions, Privacy Policy, and other legal information [here](#). By using this site, you explicitly agree to these terms.

*Factory & Router. Incorporate updates to Liquidity Migration contract.*

# External Threat Results

Vulnerability Category	Notes	Result
Arbitrary Storage Write	N/A	PASS
Arbitrary Jump	N/A	PASS
Delegate Call to Untrusted Contract	N/A	PASS
Dependence on Predictable Variables	N/A	PASS
Deprecated Opcodes	N/A	PASS
Ether Thief	N/A	PASS
Exceptions	N/A	PASS

Please review our Terms & Conditions, Privacy Policy, and other legal information [here](#). By using this site, you explicitly agree to these terms.

Vulnerability Category	Notes	Result
Integer Over/Underflow	N/A	PASS
Multiple Sends	N/A	PASS
Suicide	N/A	PASS
State Change External Calls	N/A	PASS
Unchecked Retval	N/A	PASS
User Supplied Assertion	N/A	PASS
Critical Solidity Compiler	N/A	PASS
Overall Contract Safety		PASS

# SoarSwap Factory

## Contract - Details

Please review our Terms & Conditions, Privacy Policy, and other legal information [here](#). By using this site, you explicitly agree to these terms.

**FUNCTION GRAPH****INHERITENCE CHART****FUNCTIONS OVERVIEW****SOURCE CODE**

# SoarSwap Router Contract - Details

**FUNCTION GRAPH****INHERITENCE CHART****FUNCTIONS OVERVIEW****SOURCE CODE**

# SoarSwap Liquidity

Please review our Terms & Conditions, Privacy Policy, and other legal information [here](#). By using this site, you explicitly agree to these terms.

# Details

**FUNCTION GRAPH**

**INHERITENCE CHART**

**FUNCTIONS OVERVIEW**

**SOURCE CODE**

Copyright 2021 © Solidity Finance LLC. All rights reserved. Please review our Terms & Conditions, Privacy Policy, and other legal information [here](#).

Please review our Terms & Conditions, Privacy Policy, and other legal information [here](#). By using this site, you explicitly agree to these terms.

Please review our Terms & Conditions, Privacy Policy, and other legal information [here](#). By using this site, you explicitly agree to these terms.



Please review our Terms & Conditions, Privacy Policy, and other legal information [here](#). By using this site, you explicitly agree to these terms.

Please review our Terms & Conditions, Privacy Policy, and other legal information [here](#). By using this site, you explicitly agree to these terms.

Please review our Terms & Conditions, Privacy Policy, and other legal information [here](#). By using this site, you explicitly agree to these terms.