

Audit Report FLOSHIDO INU

February 2023

SHA256

24cb5596707239103212c659d4463291888e2e1059128b07c2bb663d71cde99f

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FLOSHIDO INU Token Audit

Cyberscope

About Cyberscope



Review

Contract Name	FLOSHIDOINU
Testing Deploy	https://testnet.bscscan.com/address/0xea0ea4c86af8a3fdbd5a5b6ae1374e307fd59281
Symbol	FLOSHIDO
Decimals	9
Total Supply	100,000,000,000

Audit Updates

Initial Audit	06 Feb 2023 https://github.com/cyberscope-io/audits/blob/main/floshido/v1/audit.pdf
Corrected Phase 2	17 Feb 2023

Source Files

Filename	SHA256
contracts/2-15-2023_FLOSHIDO_INU.sol	24cb5596707239103212c659d44632918 88e2e1059128b07c2bb663d71cde99f



Analysis

Critical
 Medium
 Minor / Informative
 Pass

Severity	Code	Description	Status
•	ST	Stops Transactions	Passed
•	OCTD	Transfers Contract's Tokens	Passed
•	OTUT	Transfers User's Tokens	Passed
•	ELFM	Exceeds Fees Limit	Passed
•	ULTW	Transfers Liquidity to Team Wallet	Passed
•	MT	Mints Tokens	Passed
•	ВТ	Burns Tokens	Passed
•	ВС	Blacklists Addresses	Passed



Diagnostics

CriticalMediumMinor / Informative

Severity	Code	Description	Status
•	L04	Conformance to Solidity Naming Conventions	Unresolved
•	L07	Missing Events Arithmetic	Unresolved
•	L09	Dead Code Elimination	Unresolved
•	L12	Using Variables before Declaration	Unresolved
•	L13	Divide before Multiply Operation	Unresolved
•	L14	Uninitialized Variables in Local Scope	Unresolved
•	L20	Succeeded Transfer Check	Unresolved



L04 - Conformance to Solidity Naming Conventions

Criticality	Minor / Informative
Location	contracts/2-15-2023_FLOSHIDO_INU.sol#L33,115,118,127,128,129,130,131,146,1 52,159,160,161,162,163,187,412,481
Status	Unresolved

Description

The Solidity style guide is a set of guidelines for writing clean and consistent Solidity code. Adhering to a style guide can help improve the readability and maintainability of the Solidity code, making it easier for others to understand and work with.

The followings are a few key points from the Solidity style guide:

- 1. Use camelCase for function and variable names, with the first letter in lowercase (e.g., myVariable, updateCounter).
- 2. Use PascalCase for contract, struct, and enum names, with the first letter in uppercase (e.g., MyContract, UserStruct, ErrorEnum).
- 3. Use uppercase for constant variables and enums (e.g., MAX_VALUE, ERROR_CODE).
- 4. Use indentation to improve readability and structure.
- 5. Use spaces between operators and after commas.
- 6. Use comments to explain the purpose and behavior of the code.
- 7. Keep lines short (around 120 characters) to improve readability.



```
function WETH() external pure returns (address);
mapping (address => uint256) _tOwned
mapping (address => mapping (address => uint256)) _allowances
uint256 constant private startingSupply = 100_000_000_000
string constant private _name = "FLOSHIDO INU"
string constant private _symbol = "FLOSHIDO"
uint8 constant private _decimals = 9
uint256 constant private _tTotal = startingSupply * (10 ** _decimals)

Fees public _taxRates = Fees({
    buyFee: 1000,
    sellFee: 1000,
    transferFee: 1000
})
...
```

Recommendation

By following the Solidity naming convention guidelines, the codebase increased the readability, maintainability, and makes it easier to work with.

Find more information on the Solidity documentation https://docs.soliditylang.org/en/v0.8.17/style-guide.html#naming-convention.



L07 - Missing Events Arithmetic

Criticality	Minor / Informative
Location	contracts/2-15-2023_FLOSHIDO_INU.soI#L449,461,471,488
Status	Unresolved

Description

Events are a way to record and log information about changes or actions that occur within a contract. They are often used to notify external parties or clients about events that have occurred within the contract, such as the transfer of tokens or the completion of a task.

It's important to carefully design and implement the events in a contract, and to ensure that all required events are included. It's also a good idea to test the contract to ensure that all events are being properly triggered and logged.

```
_maxWalletSize = (_tTotal * percent) / divisor
swapThreshold = (_tTotal * thresholdPercent) / thresholdDivisor
piSwapPercent = priceImpactSwapPercent
cashierGas = gas
```

Recommendation

By including all required events in the contract and thoroughly testing the contract's functionality, the contract ensures that it performs as intended and does not have any missing events that could cause issues with its arithmetic.



L09 - Dead Code Elimination

Criticality	Minor / Informative
Location	contracts/2-15-2023_FLOSHIDO_INU.sol#L527
Status	Unresolved

Description

In Solidity, dead code is code that is written in the contract, but is never executed or reached during normal contract execution. Dead code can occur for a variety of reasons, such as:

- Conditional statements that are always false.
- Functions that are never called.
- Unreachable code (e.g., code that follows a return statement).

Dead code can make a contract more difficult to understand and maintain, and can also increase the size of the contract and the cost of deploying and interacting with it.

```
function _basicTransfer(address from, address to, uint256 amount)
internal returns (bool) {
    _tOwned[from] -= amount;
    _tOwned[to] += amount;
    emit Transfer(from, to, amount);
    return true;
}
```

Recommendation

To avoid creating dead code, it's important to carefully consider the logic and flow of the contract and to remove any code that is not needed or that is never executed. This can help improve the clarity and efficiency of the contract.



L12 - Using Variables before Declaration

Criticality	Minor / Informative
Location	contracts/2-15-2023_FLOSHIDO_INU.sol#L663,675
Status	Unresolved

Description

The contract is using a variable before the declaration. This is usually happening either if it has not been declared yet or if the variable has been declared in a different scope. It is not a good practice to use a local variable before it has been declared.

```
uint256 initThreshold
uint256 initSwapAmount
bool check
```

Recommendation

By declaring local variables before using them, contract ensures that it operates correctly. It's important to be aware of this rule when working with local variables, as using a variable before it has been declared can lead to unexpected behavior and can be difficult to debug.



L13 - Divide before Multiply Operation

Criticality	Minor / Informative
Location	contracts/2-15-2023_FLOSHIDO_INU.sol#L592,610
Status	Unresolved

Description

It is important to be aware of the order of operations when performing arithmetic calculations. This is especially important when working with large numbers, as the order of operations can affect the final result of the calculation. Performing divisions before multiplications may cause loss of prediction.

```
uint256 toLiquify = ((contractTokenBalance * ratios.liquidity) /
(ratios.total)) / 2
uint256 liquidityBalance = (amtBalance * toLiquify) / swapAmt
```

Recommendation

To avoid this issue, it is recommended to carefully consider the order of operations when performing arithmetic calculations in Solidity. It's generally a good idea to use parentheses to specify the order of operations. The basic rule is that the multiplications should be prior to the divisions.



L14 - Uninitialized Variables in Local Scope

Criticality	Minor / Informative
Location	contracts/2-15-2023_FLOSHIDO_INU.sol#L663,674,675
Status	Unresolved

Description

Using an uninitialized local variable can lead to unpredictable behavior and potentially cause errors in the contract. It's important to always initialize local variables with appropriate values before using them.

```
uint256 initSwapAmount
uint256 initThreshold
bool checked
bool check
```

Recommendation

By initializing local variables before using them, the contract ensures that the functions behave as expected and avoid potential issues.



L20 - Succeeded Transfer Check

Criticality	Minor / Informative
Location	contracts/2-15-2023_FLOSHIDO_INU.sol#L767
Status	Unresolved

Description

According to the ERC20 specification, the transfer methods should be checked if the result is successful. Otherwise, the contract may wrongly assume that the transfer has been established.

```
TOKEN.transfer(_owner, TOKEN.balanceOf(address(this)))
```

Recommendation

The contract should check if the result of the transfer methods is successful. The team is advised to check the SafeERC20 library from the Openzeppelin library.



Contract Functions

Contract	Туре	Bases		
	Function Name	Visibility	Mutability	Modifiers
IERC20	Interface			
	totalSupply	External		-
	decimals	External		-
	symbol	External		-
	name	External		-
	getOwner	External		-
	balanceOf	External		-
	transfer	External	✓	-
	allowance	External		-
	approve	External	1	-
	transferFrom	External	✓	-
IFactoryV2	Interface			
	getPair	External		-
	createPair	External	1	-
IV2Pair	Interface			
	factory	External		-
	getReserves	External		-
	sync	External	1	-
IRouter01	Interface			
	factory	External		-
	WETH	External		-



	addLiquidityETH	External	Payable	-
	addLiquidity	External	1	-
	swapExactETHForTokens	External	Payable	-
	getAmountsOut	External		-
	getAmountsIn	External		-
IRouter02	Interface	IRouter01		
	swapExactTokensForETHSupporting FeeOnTransferTokens	External	✓	-
	swapExactETHForTokensSupporting FeeOnTransferTokens	External	Payable	-
	swapExactTokensForTokensSupporti ngFeeOnTransferTokens	External	✓	-
	swapExactTokensForTokens	External	✓	-
Protections	Interface			
	checkUser	External	1	-
	setLaunch	External	1	-
	getlnits	External	1	-
	setLpPair	External	1	-
	setProtections	External	1	-
	removeSniper	External	1	-
Cashier	Interface			
	setRewardsProperties	External	✓	-
	tally	External	1	-
	load	External	Payable	-
	cashout	External	✓	-
	giveMeWelfarePlease	External	1	-
	getTotalDistributed	External		-
	getUserInfo	External		-



	getUserRealizedRewards	External		-
	getPendingRewards	External		-
	initialize	External	/	-
	getCurrentReward	External		-
FLOSHIDOINU	Implementation	IERC20		
		Public	Payable	-
	transferOwner	External	1	onlyOwner
	renounceOwnership	External	1	onlyOwner
		External	Payable	-
	totalSupply	External		-
	decimals	External		-
	symbol	External		-
	name	External		-
	getOwner	External		-
	balanceOf	Public		-
	allowance	External		-
	approve	External	1	-
	_approve	Internal	1	
	approveContractContingency	Public	1	onlyOwner
	transfer	External	1	-
	transferFrom	External	✓	-
	setNewRouter	External	✓	onlyOwner
	setLpPair	External	1	onlyOwner
	setInitializers	External	✓	onlyOwner
	isExcludedFromFees	External		-
	isExcludedFromDividends	External		-
	isExcludedFromProtection	External		-
	isExcludedFromLimits	External		-



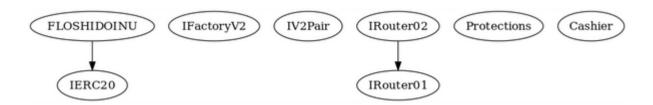
Se	etExcludedFromLimits	External	✓	onlyOwner
Se	etDividendExcluded	Public	✓	onlyOwner
Se	etExcludedFromFees	Public	✓	onlyOwner
Se	etExcludedFromProtection	External	✓	onlyOwner
re	emoveSniper	External	✓	onlyOwner
Se	etProtectionSettings	External	✓	onlyOwner
Se	etWallets	External	✓	onlyOwner
lo	ockTaxes	External	✓	onlyOwner
Se	etTaxes	External	✓	onlyOwner
Se	etRatios	External	✓	onlyOwner
Se	etMaxWalletSize	External	✓	onlyOwner
g	etMaxWallet	Public		-
g	etTokenAmountAtPriceImpact	External		-
Se	etSwapSettings	External	✓	onlyOwner
Se	etPriceImpactSwapAmount	External	✓	onlyOwner
Se	etContractSwapEnabled	External	✓	onlyOwner
Se	etRewardsProperties	External	✓	onlyOwner
Se	etReflectorSettings	External	✓	onlyOwner
ex	xcludePresaleAddresses	External	✓	onlyOwner
_1	hasLimits	Internal		
_1	basicTransfer	Internal	✓	
_1	transfer	Internal	√	
CO	ontractSwap	Internal	✓	inSwapFlag
_(checkLiquidityAdd	Private	✓	
e	nableTrading	Public	✓	onlyOwner
fii	nalizeTransfer	Internal	✓	
р	rocessRewards	Internal	✓	
m	nanualProcess	External	✓	-
''				



multiSendTokens	External	✓	onlyOwner
manualDeposit	External	✓	onlyOwner
sweepContingency	External	✓	onlyOwner
sweepExternalTokens	External	✓	onlyOwner
claimPendingRewards	External	✓	-
getTotalReflected	External		-
getUserInfo	External		-
getUserRealizedGains	External		-
getUserUnpaidEarnings	External		-
getCurrentReward	External		-

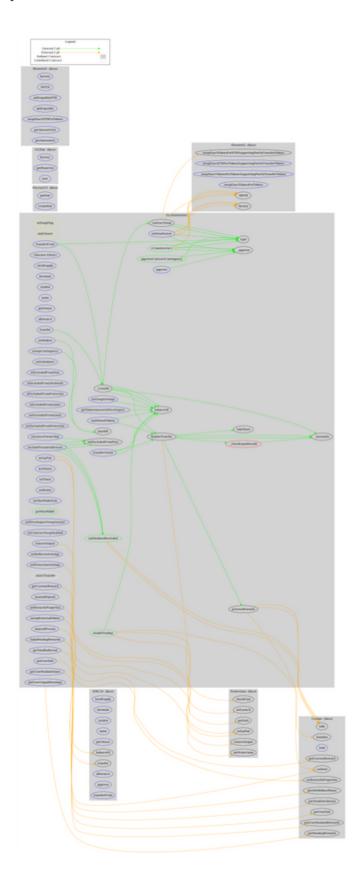


Inheritance Graph





Flow Graph





Summary

FLOSHIDO INU is an interesting project that has a friendly and growing community. The Smart Contract analysis reported no compiler errors or critical issues. The Contract Owner can access some admin functions that can not be used in a malicious way to disturb the users' transactions. There is also a limit of max 20% fees.



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The Cyberscope team

https://www.cyberscope.io