



Cyberscope

Audit Report

Eagle AI

May 2024

Network BASE

Address 0x6797b6244fa75f2e78cdffc3a4eb169332b730cc

Audited by © cyberscope

Analysis

● Critical ● Medium ● Minor / Informative ● Pass

Severity	Code	Description	Status
●	ST	Stops Transactions	Passed
●	OTUT	Transfers User's Tokens	Passed
●	ELFM	Exceeds Fees Limit	Passed
●	MT	Mints Tokens	Passed
●	BT	Burns Tokens	Passed
●	BC	Blacklists Addresses	Passed

Diagnostics

● Critical ● Medium ● Minor / Informative

Severity	Code	Description	Status
●	MFC	Misleading Fee Comments	Unresolved
●	PLPI	Potential Liquidity Provision Inadequacy	Unresolved

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Review

Contract Name	EAGLEAI
Compiler Version	v0.8.24+commit.e11b9ed9
Optimization	200 runs
Explorer	https://basescan.org/address/0x6797b6244fa75f2e78cdffc3a4eb169332b730cc
Address	0x6797b6244fa75f2e78cdffc3a4eb169332b730cc
Network	BASE
Symbol	EAI
Decimals	18
Total Supply	100,000,000
Badge Eligibility	Yes

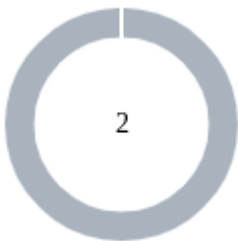
Audit Updates

Initial Audit	15 May 2024 https://github.com/cyberscope-io/audits/blob/main/1-eai/v1/audit.pdf
Corrected Phase 2	20 May 2024

Source Files

Filename	SHA256
EAGLEAI.sol	e6825a6475b53352f3559b4d9134ca9a249686fbf823056ce03b9600cf75d419

Findings Breakdown



- Critical 0
- Medium 0
- Minor / Informative 2

Severity		Unresolved	Acknowledged	Resolved	Other
●	Critical	0	0	0	0
●	Medium	0	0	0	0
●	Minor / Informative	2	0	0	0

MFC - Misleading Fee Comments

Criticality	Minor / Informative
Location	EAGLEAI.sol#L384,1213
Status	Unresolved

Description

The contract is initializing the fee variables for both buying and selling transactions correctly. However, the comments associated with the segments where these fees are applied are misleading. The comments reflect incorrect fee values that do not accurately match the actual fee variables initialized in the contract. For instance, the `buyCoinWalletTaxPer` is set to 1, but the comment states it is 2%. Similarly, the `sellReflectionTax` is set to 2, but the comment mentions 1%. This discrepancy can lead to confusion and potential misinterpretation of the contract's behavior.

```
//Buy tax percentage
uint256 public buyReflectionTax=1;
uint256 public buyCoinWalletTaxPer=1;
uint256 public buyLiquidityTaxPer=1;
uint256 public buyBurnTaxPer= 0;
//sell tax percentage
uint256 public sellReflectionTax=2;
uint256 public sellCoinWalletTaxPer=1;
uint256 public sellLiquidityTaxPer=2;
uint256 public sellBurnTaxPer= 1;
...

if (isBuy) {
    refAmt =    buyReflectionTax; //1 %
    coinOperation = buyCoinWalletTaxPer; //2 %
    liquidity = buyLiquidityTaxPer; //2 %
    burn = buyBurnTaxPer; //0%
    ...
else if (isSell) {
    refAmt = sellReflectionTax; //1%
    coinOperation = sellCoinWalletTaxPer; //2%
    liquidity = sellLiquidityTaxPer; //2%
    burn = sellBurnTaxPer;    //0%
```


Recommendation

It is recommended to update the comments to reflect the actual fee values accurately. If the comments are deemed unnecessary or prone to being outdated, consider removing them to avoid any potential confusion. Ensuring that the comments are consistent with the actual code will enhance the clarity and maintainability of the contract.

PLPI - Potential Liquidity Provision Inadequacy

Criticality	Minor / Informative
Location	EAGLEAI.sol#L1283
Status	Unresolved

Description

The contract operates under the assumption that liquidity is consistently provided to the pair between the contract's token and the native currency. However, there is a possibility that liquidity is provided to a different pair. This inadequacy in liquidity provision in the main pair could expose the contract to risks. Specifically, during eligible transactions, where the contract attempts to swap tokens with the main pair, a failure may occur if liquidity has been added to a pair other than the primary one. Consequently, transactions triggering the swap functionality will result in a revert.

```
_approve(address(this), address(uniswapV2Router), tokenAmount);

// make the swap
uniswapV2Router.swapExactTokensForETHSupportingFeeOnTransferTokens(
    tokenAmount,
    0, // accept any amount of ETH
    path,
    address(this),
    block.timestamp
);
```

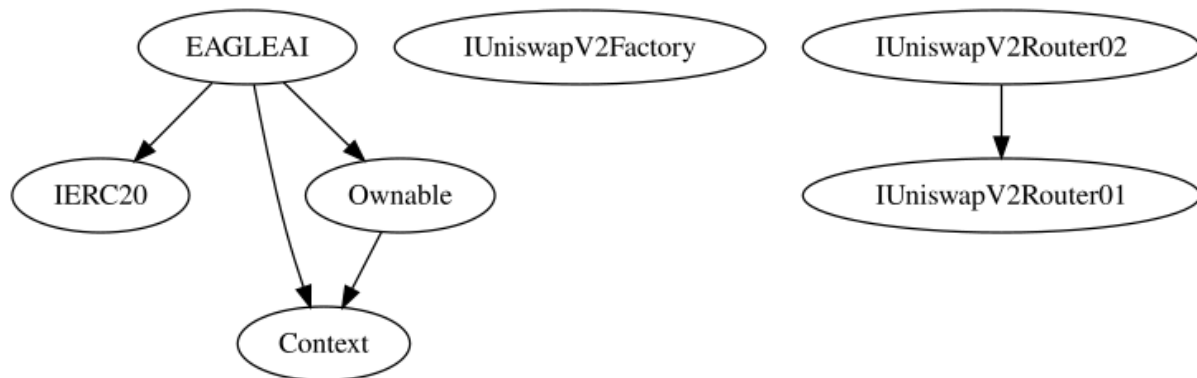
Recommendation

The team is advised to implement a runtime mechanism to check if the pair has adequate liquidity provisions. This feature allows the contract to omit token swaps if the pair does not have adequate liquidity provisions, significantly minimizing the risk of potential failures.

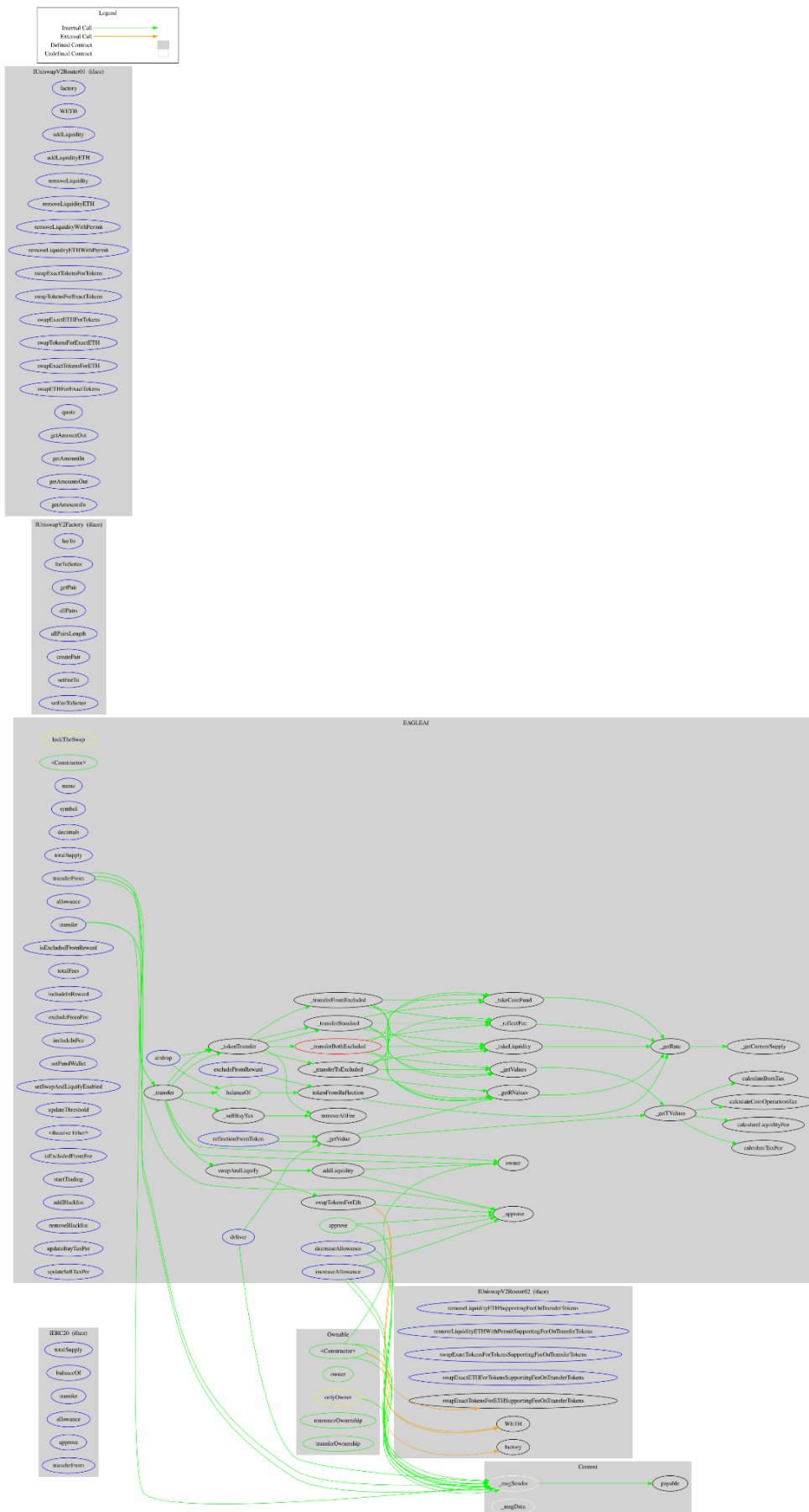
Furthermore, the team could ensure the contract has the capability to switch its active pair in case liquidity is added to another pair.

Additionally, the contract could be designed to tolerate potential reverts from the swap functionality, especially when it is a part of the main transfer flow. This can be achieved by executing the contract's token swaps in a non-reversible manner, thereby ensuring a more resilient and predictable operation.

Inheritance Graph



Flow Graph



Summary

Eagle AI contract implements a token mechanism. This audit investigates security issues, business logic concerns, and potential improvements. Shanghai Dragon 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 a maximum 24% fee on buy and sell transactions.

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About Cyberscope

Cyberscope is a blockchain cybersecurity company that was founded with the vision to make web3.0 a safer place for investors and developers. Since its launch, it has worked with thousands of projects and is estimated to have secured tens of millions of investors' funds.

Cyberscope is one of the leading smart contract audit firms in the crypto space and has built a high-profile network of clients and partners.



The Cyberscope team

<https://www.cyberscope.io>