

SMART CONTRACT SECURITY AUDIT OF **HOMER COIN**



SMART CONTRACT AUDIT | SOLIDITY DEVELOPMENT & TESTING | PROJECT EVALUATION

RELENTLESSLY SECURING THE PUBLIC BLOCKCHAIN

Audit Introduction

| | |
|---------------------------|---|
| Auditing Firm | InterFi Network |
| Audit Architecture | InterFi Echelon Auditing Standard |
| Language | Solidity |
| Client Firm | Homer Coin |
| Website | http://homercoin.io |
| Twitter | https://twitter.com/homer_coin |
| Report Date | June 18, 2022 |

InterFi

Smart Contract
Security Audit



Audit Summary

InterFi team has performed a line-by-line manual analysis and automated review of smart contracts. Smart contracts were analyzed mainly for common contract vulnerabilities, exploits, and manipulation hacks. According to the audit:

- ❖ Homer Coin's solidity source code has **LOW RISK SEVERITY**
- ❖ Homer Coin's smart contract source code has **LOW RISK SEVERITY**
- ❖ Homer Coin's smart contract ownership is set to a gnosis safe multi-sig wallet:
0x8b4814d58d1351b8bc99a72dcd15ed996e4beb63
- ❖ Homer Coin's centralization risk correlated to the active owner is **LOW**
- ❖ Important privileges – **ADD SNIPER, SET MAX SELL, SET MAX HOLD, SET HIGH TAX, SET CAN ALWAYS TRADE, SET CAN BURN**

Be aware that smart contracts deployed on the blockchain aren't resistant to internal exploit, external vulnerability, or hack. For a detailed understanding of risk severity, source code vulnerability, exploitability, and audit disclaimer, kindly refer to the audit.

📄 Contract address: **0x8179A966d334312CDc20903F0b014863Ac3d25D5**

🔗 Blockchain: **Binance Smart Chain**

✅ Verify the authenticity of this report on InterFi's GitHub: <https://github.com/interfinetwork>



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Smart Contract Risk Assessment

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Audit Scope

InterFi was consulted by Homer Coin to conduct the smart contract security audit of their solidity source codes. The audit scope of work is strictly limited to the mentioned solidity file(s) only:

❖ HomerCoin.sol

Solidity Source Code On Blockchain (Verified Contract Source Code)

<https://bscscan.com/address/0x8179a966d334312cdc20903f0b014863ac3d25d5#code>

Contract Name: Homer Coin

Compiler Version: v0.8.7

Optimization Enabled: Yes with 200 runs

Solidity Source Code On InterFi GitHub

<https://github.com/interfinetwork/audited-codes/blob/main/HomerCoin.sol>

SHA-1 Hash

Solidity source code is audited at hash #f065c697fb692d4e8b51e561ffc6b4bb5c347800



Audit Methodology

The scope of this report is to audit the smart contract source code of Homer Coin. InterFi has scanned contracts and reviewed codes for common vulnerabilities, exploits, hacks, and backdoors. Due to being out of scope, InterFi has not tested contracts on testnet to assess any functional flaws. Below is the list of commonly known smart contract vulnerabilities, exploits, and hacks:

Category

Smart Contract Vulnerabilities

- ❖ Re-entrancy
- ❖ Unhandled Exceptions
- ❖ Transaction Order Dependency
- ❖ Integer Overflow
- ❖ Unrestricted Action
- ❖ Incorrect Inheritance Order

..... ❖ Typographical Errors

❖ Requirement Violation

❖ Gas Limit and Loops

❖ Deployment Consistency

❖ Repository Consistency

❖ Data Consistency

❖ Token Supply Manipulation

❖ Access Control and Authorization

❖ Operations Trail and Event Generation

❖ Assets Manipulation

❖ Ownership Control

❖ Liquidity Access

Source Code Review



InterFi's Echelon Audit Standard

The aim of InterFi's "Echelon" standard is to analyze smart contracts and identify the vulnerabilities and the hacks. Kindly note, InterFi does not test smart contracts on testnet. It is recommended that smart contracts are thoroughly tested prior to the audit submission. Mentioned are the steps used by InterFi to audit smart contracts:

1. Solidity smart contract source code reviewal:
 - ❖ Review of the specifications, sources, and instructions provided to InterFi to make sure we understand the size, and scope of the smart contract audit.
 - ❖ Manual review of code, which is the process of reading source code line-by-line to identify potential vulnerabilities.
2. Static, Manual, and Software analysis:
 - ❖ Test coverage analysis is the process of determining whether the test cases are covering the code and how much code is exercised when we run those test cases.
 - ❖ Symbolic execution is analyzing a program to determine what inputs cause each part of a program to execute.
3. Best practices review, which is a review of the smart contracts to improve efficiency, effectiveness, clarify, maintainability, security, and control based on the established industry and academic practices, recommendations, and research.
4. Specific, itemized, actionable recommendations to help you take steps to secure your smart contracts

Automated 3P frameworks used to assess the smart contract vulnerabilities

- ❖ Consensys Tools
- ❖ SWC Registry
- ❖ Solidity Coverage
- ❖ Open Zeppelin Code Analyzer
- ❖ Solidity Code Compiler



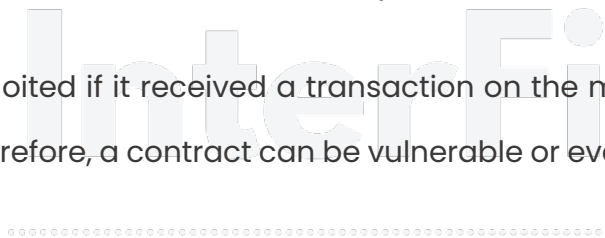
Risk Classification

Smart contracts are generally designed to manipulate and hold funds denominated in ETH/BNB. This makes them very tempting attack targets, as a successful attack may allow the attacker to directly steal funds from the contract. Below are the typical risk levels of a smart contract:

Vulnerable: A contract is vulnerable if it has been flagged by a static analysis tool as such. As we will see later, this means that some contracts may be vulnerable because of a false positive.

Exploitable: A contract is exploitable if it is vulnerable and the vulnerability could be exploited by an external attacker. For example, if the “vulnerability” flagged by a tool is in a function that requires owning the contract, it would be vulnerable but not exploitable.

Exploited: A contract is exploited if it received a transaction on the main network which triggered one of its vulnerabilities. Therefore, a contract can be vulnerable or even exploitable without having been exploited.



Smart Contract Security Audit

| Risk severity | Meaning |
|------------------------|--|
| ! High | This level vulnerabilities could be exploited easily and can lead to asset loss, data loss, asset, or data manipulation. They should be fixed right away. |
| ! Medium | This level vulnerabilities are hard to exploit but very important to fix, they carry an elevated risk of smart contract manipulation, which can lead to high-risk severity |
| ! Low | This level vulnerabilities should be fixed, as they carry an inherent risk of future exploits, and hacks which may or may not impact the smart contract execution. |
| ! Informational | This level vulnerabilities can be ignored. They are code style violations and informational statements in the code. They may not affect the smart contract execution |



Static Analysis

Symbol Meaning



Function can modify state



Function is payable



Function is locked



Function can be accessed



Important functionality

```

| **HomerCoin** | Implementation | BaseErc20, AntiSniper, Burnable, Taxable, Dividends |||
| L | <Constructor> | Public ! |  | NO ! |
| L | launch | Public ! |  | onlyOwner |
| L | configure | Internal  |  | |
| L | preTransfer | Internal  |  | |
| L | calculateTransferAmount | Internal  |  | |
| L | postTransfer | Internal  |  | |
| |||||
| **DividendDistributor** | Implementation | IDividendDistributor |||
| L | <Constructor> | Public ! |  | NO ! |
| L | setDistributionCriteria | External ! | | onlyToken |
| L | setDistributionCriteria | External ! |  | onlyToken |
| L | setShare | External ! |  | onlyToken |
| L | depositNative | External ! |  | onlyDistributor |
| L | depositToken | External ! |  | onlyDistributor |
| L | process | External ! |  | onlyToken swapLock |
| L | shouldDistributeToken | Private  | | |
| L | distributeTokenDividend | Private  |  | |
| L | claimDividend | External ! |  | NO ! |
| L | getUnpaidTokenEarnings | Public ! | | NO ! |
| L | getTokenCumulativeDividends | Private  | | |
| L | addShareholder | Private  |  | |
| L | removeShareholder | Private  |  | |
| |||||
| **IPinkAntiBot** | Interface | |||
| L | setTokenOwner | External ! |  | NO ! |
| L | onPreTransferCheck | External ! |  | NO ! |
| |||||
| **AntiSniper** | Implementation | BaseErc20 |||
| L | configure | Internal  |  | |
| L | launch | Public ! |  | onlyOwner |
| L | preTransfer | Internal  |  | |
| L | calculateTransferAmount | Internal  |  | |

```



```

| L | maxHoldAmount | Public ! | |NO! |
| L | maxSellAmount | Public ! | |NO! |
| L | sniperTax | Public ! | |NO! |
| L | configurePinkAntiBot | External ! | ● | onlyOwner |
| L | setSniperBlocking | External ! | ● | onlyOwner |
| L | setBlockLogProtection | External ! | ● | onlyOwner |
| L | setHighTaxCountdown | External ! | ● | onlyOwner |
| L | setPinkAntiBot | External ! | ● | onlyOwner |
| L | setMaxSellPercentage | External ! | ● | onlyOwner |
| L | setMaxHoldPercentage | External ! | ● | onlyOwner |
| L | setMaxGasLimit | External ! | ● | onlyOwner |
| L | setIsSniper | External ! | ● | onlyOwner |
| L | setNeverSniper | External ! | ● | onlyOwner |
|||||
| **BaseErc20** | Implementation | IERC20, IOwnable |||
| L | configure | Internal 🔒 | ● | |
| L | totalSupply | Public ! | |NO! |
| L | balanceOf | Public ! | |NO! |
| L | allowance | Public ! | |NO! |
| L | transfer | Public ! | ● | tradingEnabled |
| L | approve | Public ! | ● | tradingEnabled |
| L | transferFrom | Public ! | ● | tradingEnabled |
| L | increaseAllowance | Public ! | ● | tradingEnabled |
| L | decreaseAllowance | Public ! | ● | tradingEnabled |
| L | launch | Public ! | ● | onlyOwner |
| L | preTransfer | Internal 🔒 | ● | |
| L | calculateTransferAmount | Internal 🔒 | ● | |
| L | postTransfer | Internal 🔒 | ● | |
| L | changeOwner | External ! | ● | onlyOwner |
| L | removeBnb | External ! | ● | onlyOwner |
| L | transferTokens | External ! | ● | onlyOwner |
| L | setTradingEnabled | External ! | ● | onlyOwner |
| L | setCanAlwaysTrade | External ! | ● | onlyOwner |
| L | setExchange | External ! | ● | onlyOwner |
| L | setExcludedFromSelling | External ! | ● | onlyOwner |
| L | _transfer | Private 🔒 | ● | |
|||||
| **Burnable** | Implementation | BaseErc20, IBurnable |||
| L | configure | Internal 🔒 | ● | |
| L | setAbleToBurn | External ! | ● | onlyOwner |
| L | burn | Public ! | ● | onlyBurner |
| L | burnFrom | Public ! | ● | onlyBurner |
|||||
| **Dividends** | Implementation | BaseErc20 |||
| L | configure | Internal 🔒 | ● | |
| L | postTransfer | Internal 🔒 | ● | |
| L | dividendDistributorAddress | Public ! | |NO! |
| L | setDividendDistributionThresholds | External ! | ● | onlyOwner |
| L | setAutoDistributeDividends | External ! | ● | onlyOwner |
| L | setIsDividendExempt | External ! | ● | onlyOwner |

```



```

| L | runDividendsManually | External ! | ● | onlyOwner |
|||||
| **IOwnable** | Interface | |||
| L | owner | External ! | |NO ! |
|||||
| **IERC20** | Interface | |||
| L | totalSupply | External ! | |NO ! |
| L | balanceOf | External ! | |NO ! |
| L | allowance | External ! | |NO ! |
| L | transfer | External ! | ● |NO ! |
| L | approve | External ! | ● |NO ! |
| L | transferFrom | External ! | ● |NO ! |
|||||
| **IBurnable** | Interface | |||
| L | burn | External ! | ● |NO ! |
| L | burnFrom | External ! | ● |NO ! |
|||||
| **IDEXFactory** | Interface | |||
| L | createPair | External ! | ● |NO ! |
|||||
| **IDEXRouter** | Interface | |||
| L | factory | External ! | |NO ! |
| L | WETH | External ! | |NO ! |
| L | addLiquidityETH | External ! | 🏠 |NO ! |
| L | swapExactTokensForETH | External ! | ● |NO ! |
| L | swapExactTokensForETHSupportingFeeOnTransferTokens | External ! | ● |NO ! |
|||||
| **IDividendDistributor** | Interface | |||
| L | setDistributionCriteria | External ! | ● |NO ! |
| L | setShare | External ! | ● |NO ! |
| L | depositNative | External ! | 🏠 |NO ! |
| L | depositToken | External ! | ● |NO ! |
| L | process | External ! | ● |NO ! |
| L | inSwap | External ! | |NO ! |
|||||
| **ITaxDistributor** | Interface | |||
| L | <Receive Ether> | External ! | 🏠 |NO ! |
| L | lastSwapTime | External ! | |NO ! |
| L | inSwap | External ! | |NO ! |
| L | createWalletTax | External ! | ● |NO ! |
| L | createDistributorTax | External ! | ● |NO ! |
| L | createDividendTax | External ! | ● |NO ! |
| L | createBurnTax | External ! | ● |NO ! |
| L | createLiquidityTax | External ! | ● |NO ! |
| L | distribute | External ! | 🏠 |NO ! |
| L | getSellTax | External ! | |NO ! |
| L | getBuyTax | External ! | |NO ! |
| L | setTaxWallet | External ! | ● |NO ! |
| L | setSellTax | External ! | ● |NO ! |
| L | setBuyTax | External ! | ● |NO ! |

```



```

| L | takeSellTax | External ! | ● |NO ! |
| L | takeBuyTax | External ! | ● |NO ! |
|||||
| **IWalletDistributor** | Interface | |||
| L | receiveToken | External ! | ● |NO ! |
|||||
| **SafeMath** | Library | |||
| L | mul | Internal 🔒 | | |
| L | mul | Internal 🔒 | | |
| L | div | Internal 🔒 | | |
| L | div | Internal 🔒 | | |
| L | sub | Internal 🔒 | | |
| L | sub | Internal 🔒 | | |
| L | add | Internal 🔒 | | |
| L | add | Internal 🔒 | | |
| L | mod | Internal 🔒 | | |
|||||
| **Taxable** | Implementation | BaseErc20 |||
| L | configure | Internal 🔒 | ● | |
| L | calculateTransferAmount | Internal 🔒 | ● | |
| L | preTransfer | Internal 🔒 | ● | |
| L | sellTax | Public ! | |NO ! |
| L | buyTax | Public ! | |NO ! |
| L | taxDistributorAddress | Public ! | |NO ! |
| L | setAutoSwaptax | External ! | ● | onlyOwner |
| L | setExcludedFromTax | External ! | ● | onlyOwner |
| L | setTaxDistributionThresholds | External ! | ● | onlyOwner |
| L | setSellTax | External ! | ● | onlyOwner |
| L | setBuyTax | External ! | ● | onlyOwner |
| L | setTaxWallet | External ! | ● | onlyOwner |
| L | runSwapManually | External ! | ● | onlyOwner isLaunched |
|||||
| **TaxDistributor** | Implementation | ITaxDistributor |||
| L | <Constructor> | Public ! | ● |NO ! |
| L | <Receive Ether> | External ! | 💰 |NO ! |
| L | createWalletTax | Public ! | ● | onlyToken |
| L | createDistributorTax | Public ! | ● | onlyToken |
| L | createDividendTax | Public ! | ● | onlyToken |
| L | createBurnTax | Public ! | ● | onlyToken |
| L | createLiquidityTax | Public ! | ● | onlyToken |
| L | distribute | Public ! | 💰 | onlyToken swapLock |
| L | getSellTax | Public ! | | onlyToken |
| L | getBuyTax | Public ! | | onlyToken |
| L | setTaxWallet | Public ! | ● | onlyToken |
| L | setSellTax | Public ! | ● | onlyToken |
| L | setBuyTax | Public ! | ● | onlyToken |
| L | takeSellTax | Public ! | ● | onlyToken |
| L | takeBuyTax | Public ! | ● | onlyToken |
| L | compareStrings | Public ! | |NO ! |
| L | checkTokenAmount | Private 🔒 | | |

```



Software Analysis

Function Signatures

```

18551108 => taxDistributorAddress()
36827499 => setHighTaxCountdown(bool)
39509351 => increaseAllowance(address,uint256)
43509138 => div(int256,int256)
48760858 => onPreTransferCheck(address,address,uint256)
01339c21 => launch()
75cb2672 => configure(address)
bf1152db => preTransfer(address,address,uint256)
355ddc3c => calculateTransferAmount(address,address,uint256)
03c19b61 => postTransfer(address,address)
2d48e896 => setDistributionCriteria(uint256,uint256)
0ca61cb1 => setDistributionCriteria(uint256,uint256,uint256)
14b6ca96 => setShare(address,uint256)
db6b5246 => depositNative()
338b5dea => depositToken(address,uint256)
ffb2c479 => process(uint256)
7f95fecf => shouldDistributeToken(address)
51806c51 => distributeTokenDividend(address)
f0fc6bca => claimDividend()
ce0c2745 => getUnpaidTokenEarnings(address)
c0bd6f31 => getTokenCumulativeDividends(uint256)
db29fe12 => addShareholder(address)
9babdad6 => removeShareholder(address)
18e02bd9 => setTokenOwner(address)
cd03425c => maxHoldAmount()
66d602ae => maxSellAmount()
f1f5cd91 => sniperTax()
d3b0066f => configurePinkAntiBot(address)
c552f4c5 => setSniperBlocking(bool)
5543379a => setBlockLogProtection(bool)
89d53c01 => setPinkAntiBot(bool)
abea3e7d => setMaxSellPercentage(uint256)
cf38b7e7 => setMaxHoldPercentage(uint256)
1776834a => setMaxGasLimit(uint256)
5d90bbaf => setIsSniper(address,bool)
5d9d7d43 => setNeverSniper(address,bool)
18160ddd => totalSupply()
70a08231 => balanceOf(address)
dd62ed3e => allowance(address,address)
a9059cbb => transfer(address,uint256)
095ea7b3 => approve(address,uint256)
23b872dd => transferFrom(address,address,uint256)
a457c2d7 => decreaseAllowance(address,uint256)
a6f9dae1 => changeOwner(address)
e53be8d1 => removeBnb()

```



```

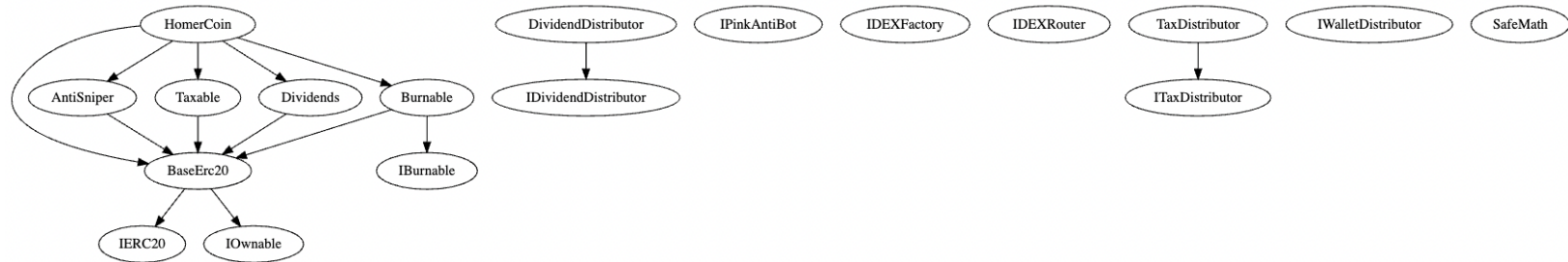
6a092e79 => transferTokens(address,address)
c2e5ec04 => setTradingEnabled(bool)
4fbc2775 => setCanAlwaysTrade(address,bool)
28be9038 => setExchange(address,bool)
52468d2b => setExcludedFromSelling(address,bool)
30e0789e => _transfer(address,address,uint256)
1e19ae77 => setAbleToBurn(address,bool)
9dc29fac => burn(address,uint256)
79cc6790 => burnFrom(address,uint256)
a26bd13c => dividendDistributorAddress()
b16c1d14 => setDividendDistributionThresholds(uint256,uint256,uint256)
ac980258 => setAutoDistributeDividends(bool)
f708a64f => setIsDividendExempt(address,bool)
8dfbe582 => runDividendsManually(uint256)
8da5cb5b => owner()
c9c65396 => createPair(address,address)
c45a0155 => factory()
ad5c4648 => WETH()
f305d719 => addLiquidityETH(address,uint256,uint256,uint256,address,uint256)
18cbafe5 => swapExactTokensForETH(uint256,uint256,address[],address,uint256)
791ac947 =>
swapExactTokensForETHSupportingFeeOnTransferTokens(uint256,uint256,address[],address,uint256)
d8306786 => inSwap()
0dd87157 => lastSwapTime()
8d262cfe => createWalletTax(string,uint256,uint256,address,bool)
135b4fc0 => createDistributorTax(string,uint256,uint256,address,bool)
2b1fb89e => createDividendTax(string,uint256,uint256,address,bool)
fb5a780c => createBurnTax(string,uint256,uint256)
62aa0444 => createLiquidityTax(string,uint256,uint256)
e4fc6b6d => distribute()
b0bc85de => getSellTax()
252d723a => getBuyTax()
583dd79d => setTaxWallet(string,address)
6508c57e => setSellTax(string,uint256)
07a1cfbd => setBuyTax(string,uint256)
4fa26fd5 => takeSellTax(uint256)
db017dc7 => takeBuyTax(uint256)
4ec109f4 => receiveToken(address,address,uint256)
c8a4ac9c => mul(uint256,uint256)
bbe93d91 => mul(int256,int256)
a391c15b => div(uint256,uint256)
b67d77c5 => sub(uint256,uint256)
adefc37b => sub(int256,int256)
771602f7 => add(uint256,uint256)
a5f3c23b => add(int256,int256)
f43f523a => mod(uint256,uint256)
cc1776d3 => sellTax()
4f7041a5 => buyTax()
4f72e2a2 => setAutoSwaptax(bool)
c2ed286b => setExcludedFromTax(address,bool)

```



d31acb28 => setTaxDistributionThresholds(uint256,uint256)
 442ef7d2 => runSwapManually()
 bed34bba => compareStrings(string,string)
 ce6138ae => checkTokenAmount(IERC20,uint256)

Inheritance Graph



InterFi

Smart Contract
Security Audit



Manual Analysis

| Function | Description | Available | Status |
|---------------------|---|-----------|--------|
| Total Supply | provides information about the total token supply | Yes | Passed |
| Balance Of | provides account balance of the owner's account | Yes | Passed |
| Transfer | executes transfers of a specified number of tokens to a specified address | Yes | Passed |
| Approve | allow a spender to withdraw a set number of tokens from a specified account | Yes | Passed |
| Allowance | returns a set number of tokens from a spender to the owner | Yes | Passed |
| Buy Back | is an action in which the project buys back its tokens from the existing holders usually at a market price | NA | NA |
| Burn | executes transfers of a specified number of tokens to a burn address | Yes | Passed |
| Mint | executes the creation of a specified number of tokens and adds it to the total supply | NA | NA |
| Rebase | circulating token supply adjusts (increases or decreases) automatically according to a token's price fluctuations | NA | NA |
| Dividend | executes transfers of a specified dividend token to a specified address | Yes | Passed |
| Lock / Pause | locks or pauses all or some function modules of the smart contract | NA | NA |



| Function | Description | Tested | Verdict |
|---------------------------|---|--------|---------------|
| Blacklist | stops specified wallets from interacting with the smart contract function modules | Yes | ! Low |
| Airdrop | executes transfers of a specified number of tokens to a specified address | NA | NA |
| Max Sell | a non-whitelisted wallet can only sell a specified number of tokens | Yes | Passed |
| Max Hold | a non-whitelisted wallet can only hold a specified number of tokens | Yes | Passed |
| Contract Fees | executes fee collection from swap events and/or transfer events | Yes | Passed |
| Cooldown Timer | functionality to limit the number of transactions that a wallet can make within given epoch | Yes | Passed |
| Anti Bot | stops some or all bot wallets from interacting with the smart contract | Yes | Passed |
| Transfer Ownership | executes transfer of contract ownership to a specified wallet | Yes | Passed |
| Renounce Ownership | executes transfer of contract ownership to a dead address | Yes | Passed |



Notable Information

- ❖ Smart contract utilizes **safemath** function to avoid common smart contract vulnerabilities.

```
string private _name = "HomerCoin";
library SafeMath {
function add(uint256 a, uint256 b) internal pure returns (uint256) {
    uint256 c = a + b;
    require(c >= a, "SafeMath: addition overflow");
function sub(uint256 a, uint256 b) internal pure returns (uint256) {
    return sub(a, b, "SafeMath: subtraction overflow");
    uint256 c = a * b;
    require(c / a == b, "SafeMath: multiplication overflow");
    return c;
function div(uint256 a, uint256 b) internal pure returns (uint256) {
    return div(a, b, "SafeMath: division by zero");
function mod(uint256 a, uint256 b) internal pure returns (uint256) {
    return mod(a, b, "SafeMath: modulo by zero");
```

- ❖ Smart contract owner can call `receive()`, it is executed on a call to the contract with empty call data. This is the function that is executed on plain ether transfers such as `send()`, and `transfer()`. Make sure the contract can receive token through a regular transaction, and does not throw an exception.

```
receive() external payable {}
```

- ❖ Smart contract utilizes **antibot** function module to allow limited transactions after a number of blocks from launch-block.

```
abstract contract AntiSniper is BaseErc20 {
    using SafeMath for uint256;
    IPinkAntiBot public pinkAntiBot;

function sniperTax() public virtual view returns (uint256) {
    if(launched) {
        if (block.number - launchBlock < 3)

function setHighTaxCountdown(bool enabled) external onlyOwner {
    enableHighTaxCountdown = enabled;

function setSniperBlocking(bool enabled) external onlyOwner {
    enableSniperBlocking = enabled;
```



```
function setBlockLogProtection(bool enabled) external onlyOwner {
    enableBlockLogProtection = enabled;
```

- ❖ Smart contract owner can **blacklist** certain wallets from interacting with the contract function modules.

```
function setIsSniper(address who, bool enabled) external onlyOwner {
    isSniper[who] = enabled;
```

- ❖ Smart contract owner can **change max sell limit**.

```
function maxSellAmount() public view returns (uint256) {
    return totalSupply().mul(maxSellPercentage).div(10000);
```

- ❖ Smart contract owner can **change max hold limit**.

```
function maxHoldAmount() public view returns (uint256) {
    return totalSupply().mul(maxHoldPercentage).div(10000);
```

- ❖ Smart contract owner can **change max gas limit**.

```
function setMaxGasLimit(uint256 amount) external onlyOwner {
    maxGasLimit = amount;
```

- ❖ Smart contract burner can **burn assets from wallets**. Allowance requirements must be met to initiate this function.

```
function burnFrom(address account, uint256 value) public override onlyBurner {
    _allowed[account][msg.sender] = _allowed[account][msg.sender].sub(value);
```



SWC Attacks

| SWC ID | Description | Status |
|---------|---------------------------------------|-----------------|
| SWC-101 | Integer Overflow and Underflow | Passed |
| SWC-102 | Outdated Compiler Version | ! Informational |
| SWC-103 | Floating Pragma | Passed |
| SWC-104 | Unchecked Call Return Value | Passed |
| SWC-105 | Unprotected Ether Withdrawal | Passed |
| SWC-106 | Unprotected SELF-DESTRUCT Instruction | Passed |
| SWC-107 | Re-entrancy | Passed |
| SWC-108 | State Variable Default Visibility | Passed |
| SWC-109 | Uninitialized Storage Pointer | Passed |
| SWC-110 | Assert Violation | Passed |
| SWC-111 | Use of Deprecated Solidity Functions | Passed |
| SWC-112 | Delegate Call to Untrusted Callee | Passed |
| SWC-113 | DoS with Failed Call | Passed |
| SWC-114 | Transaction Order Dependence | Passed |
| SWC-115 | Authorization through tx.origin | Passed |
| SWC-116 | Block values as a proxy for time | Passed |
| SWC-117 | Signature Malleability | Passed |
| SWC-118 | Incorrect Constructor Name | Passed |

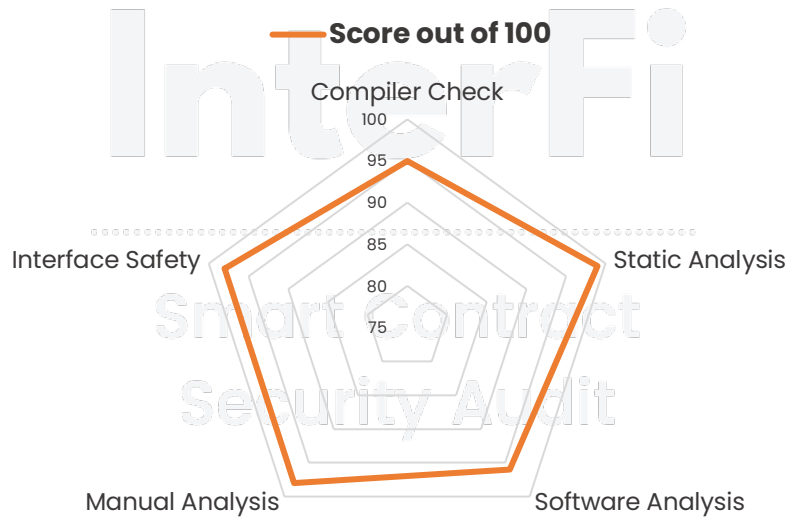


| | | |
|----------------|---|---------------|
| SWC-119 | Shadowing State Variables | Passed |
| SWC-120 | Weak Sources of Randomness from Chain Attributes | Passed |
| SWC-121 | Missing Protection against Signature Replay Attacks | Passed |
| SWC-122 | Lack of Proper Signature Verification | Passed |
| SWC-123 | Requirement Violation | Passed |
| SWC-124 | Write to Arbitrary Storage Location | Passed |
| SWC-125 | Incorrect Inheritance Order | Passed |
| SWC-126 | Insufficient Gas Griefing | Passed |
| SWC-127 | Arbitrary Jump with Function Type Variable | Passed |
| SWC-128 | DoS With Block Gas Limit | Passed |
| SWC-129 | Typographical Error | Passed |
| SWC-130 | Right-To-Left-Override control character (U+202E) | Passed |
| SWC-131 | Presence of unused variables | Passed |
| SWC-132 | Unexpected Ether balance | Passed |
| SWC-133 | Hash Collisions With Multiple Variable Length Arguments | Passed |
| SWC-134 | Message call with the hardcoded gas amount | Passed |
| SWC-135 | Code With No Effects (Irrelevant/Dead Code) | Passed |
| SWC-136 | Unencrypted Private Data On-Chain | Passed |



Risk Status & Radar Chart

| Risk Severity | Status |
|---------------|---|
| High | No high severity issues identified |
| Medium | No medium severity issues identified |
| Low | 1 low severity issue identified |
| Informational | 1 informational severity issue identified |



Auditor's Verdict

InterFi team has performed a line-by-line manual analysis and automated review of smart contracts. Smart contracts were analyzed mainly for common contract vulnerabilities, exploits, and manipulation hacks. According to the audit:

- ❖ Homer Coin's smart contract source code has **LOW RISK SEVERITY**
- ❖ Homer Coin's smart contract ownership is set to a gnosis safe multi-sig wallet:
0x8b4814d58d1351b8bc99a72dcd15ed996e4beb63
- ❖ Homer Coin's centralization risk correlated to the active owner is **LOW**

InterFi

Smart Contract Security Audit

Note for stakeholders

- ❖ Make sure that the project team's KYC/identity is verified by an independent firm.
- ❖ Always check if the contract's liquidity is locked. A longer liquidity lock plays an important role in the project's longevity. It is recommended to have multiple liquidity providers.
- ❖ Examine the unlocked token supply in the owner, developer, or team's private wallets. Understand the project's tokenomics, and make sure the tokens outside of the LP Pair are vested or locked for a longer period.



Important Disclaimer

InterFi Network provides contract development, testing, auditing and project evaluation services for blockchain projects. The purpose of the audit is to analyze the on-chain smart contract source code and to provide a basic overview of the project. **This report should not be transmitted, disclosed, referred to, or relied upon by any person for any purpose without InterFi's prior written consent.**

InterFi provides the easy-to-understand assessment of the project, and the smart contract (otherwise known as the source code). The audit makes no statements or warranties on the security of the code. It also cannot be considered as enough assessment regarding the utility and safety of the code, bug-free status, or any other statements of the contract. While we have used all the data at our disposal to provide the transparent analysis, it is important to note that you should not rely on this report only – we recommend proceeding with several independent audits and a public bug bounty program to ensure the security of smart contracts. **Be aware that smart contracts deployed on a blockchain aren't resistant to external vulnerability, or a hack. Be aware that active smart contract owner privileges constitute an elevated impact on smart contract safety and security. Therefore, InterFi does not guarantee the explicit security of the audited smart contract.**

The analysis of the security is purely based on the smart contracts alone. No applications or operations were reviewed for security. No product code has been reviewed.

This report should not be considered as an endorsement or disapproval of any project or team.

The information provided in this report does not constitute investment advice, financial advice, trading advice, or any other sort of advice and you should not treat any of the report's content as such. Do conduct your due diligence and consult your financial advisor before making any investment decisions.



About InterFi Network

InterFi Network provides intelligent blockchain solutions. InterFi is developing an ecosystem that is seamless and responsive. Some of our services: Blockchain Security, Token Launchpad, NFT Marketplace, etc. **InterFi's mission is to interconnect multiple services like Blockchain Security, DeFi, Gaming, and Marketplace under one ecosystem that is seamless, multi-chain compatible, scalable, secure, fast, responsive, and easy to use.**

InterFi is built by a decentralized team of UI experts, contributors, engineers, and enthusiasts from all over the world. Our team currently consists of 6+ core team members, and 10+ casual contributors. **InterFi provides manual, static, and automatic smart contract analysis, to ensure that project is checked against known attacks and potential vulnerabilities.**

To learn more, visit <https://interfi.network>

To view our audit portfolio, visit <https://github.com/interfinetwork>

To book an audit, message <https://t.me/interfiaudits>





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