



Revoluzion Audit



Audit Report

Name	: ShibConnect
Symbol	: ShibConnect
Decimals	: 9
Address	: 0x341C7dD7acoC5o1C21D87a68Fcd3oBd5oC31423o
Owner	: 0x13331eE1358oD9cC961DCa5De3D8d50e332c18Da
Network	: Binance Smart Chain (Mainnet)
Type	: BEP2o
Audited on	: 4 March 2023
Updated on	: 10 March 2023



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Project Overview

Name	ShibConnect
Symbol	ShibConnect
Decimals	9
Total Supply	1,000,000,000
Tax	Early Tax — Refer notable information Buy 0% Sell 0% — (Variable Tax: Max Buy starting from 25% Max Sell starting from 25%) Normal — Refer notable information Buy 9% Sell 9% — (Variable Tax: Max Buy starting from 17% Max Sell starting from 17%) Referred — Refer notable information Buy 7% Sell 7% — (Variable Tax: Max Buy starting from 22% Max Sell starting from 22%)
Compiler Version	v0.8.17+commit.8df45f5f
Optimization	Yes with 5 runs
License Type	Unlicensed
Explorer Link	https://bscscan.com/address/0x341c7dd7ac0c501c21d87a68fc30bd50c314230
Create Tx	0x6289a137689d1fccd3388c4339f5229fadff340693bb6267aoa7c2e18017e0d4
Creator	0x13331eE13580D9cC961DCa5De3D8d50e332c18Da



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Featured Wallet	Marketing Wallet — 0x5dEBAC6Dcda515C67f430FF7627b3867E999C468 Liquidity Wallet — 0x13331eE13580D9cC961DCa5De3D8d50e332c18Da
Website	https://shibconnect.com



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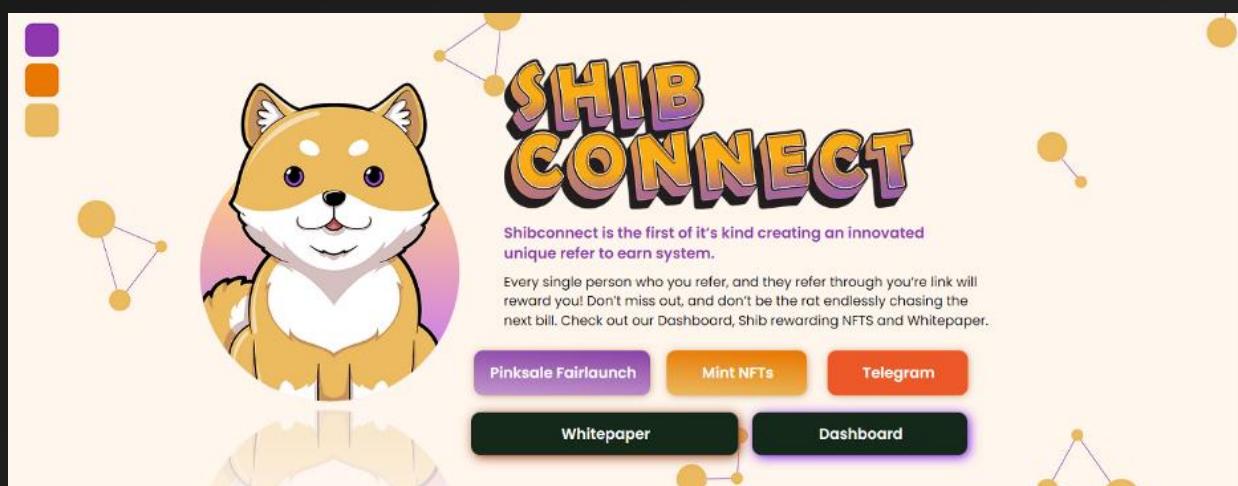
Project Description

According to their website

Shibconnect is the first of its kind creating an innovated unique refer to earn system. Every single person who you refer, and they refer through your link will reward you! Don't miss out, and don't be the rat endlessly chasing the next bill. Check out our Dashboard, Shib rewarding NFTS and Whitepaper.

Release Date : TBA

Category : Refer to Earn System





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Online Presence

About Website

Registrar : <https://www.namecheap.com>

Domain Expiration : 2024-02-23

SSL Certificate : Issued by Sectigo Limited

Official Links

Website	https://shibconnect.com
Twitter	https://twitter.com/shibconnectbsc
Telegram	https://t.me/shibconnect
Facebook	https://www.facebook.com/shibconnect
GitBook	https://shibconnect.gitbook.io/shibconnect.com
GitHub	https://github.com/ShibConnect



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The Team

About	We only interacted with the owner for the audit. However, there are no KYC procedure being conducted by Revoluzion on any of ShibConnect's team members.
KYC Issuer	N/A
Member's KYC'd	N/A
KYC Date	N/A
Certificate Link	N/A
Task Completed	N/A



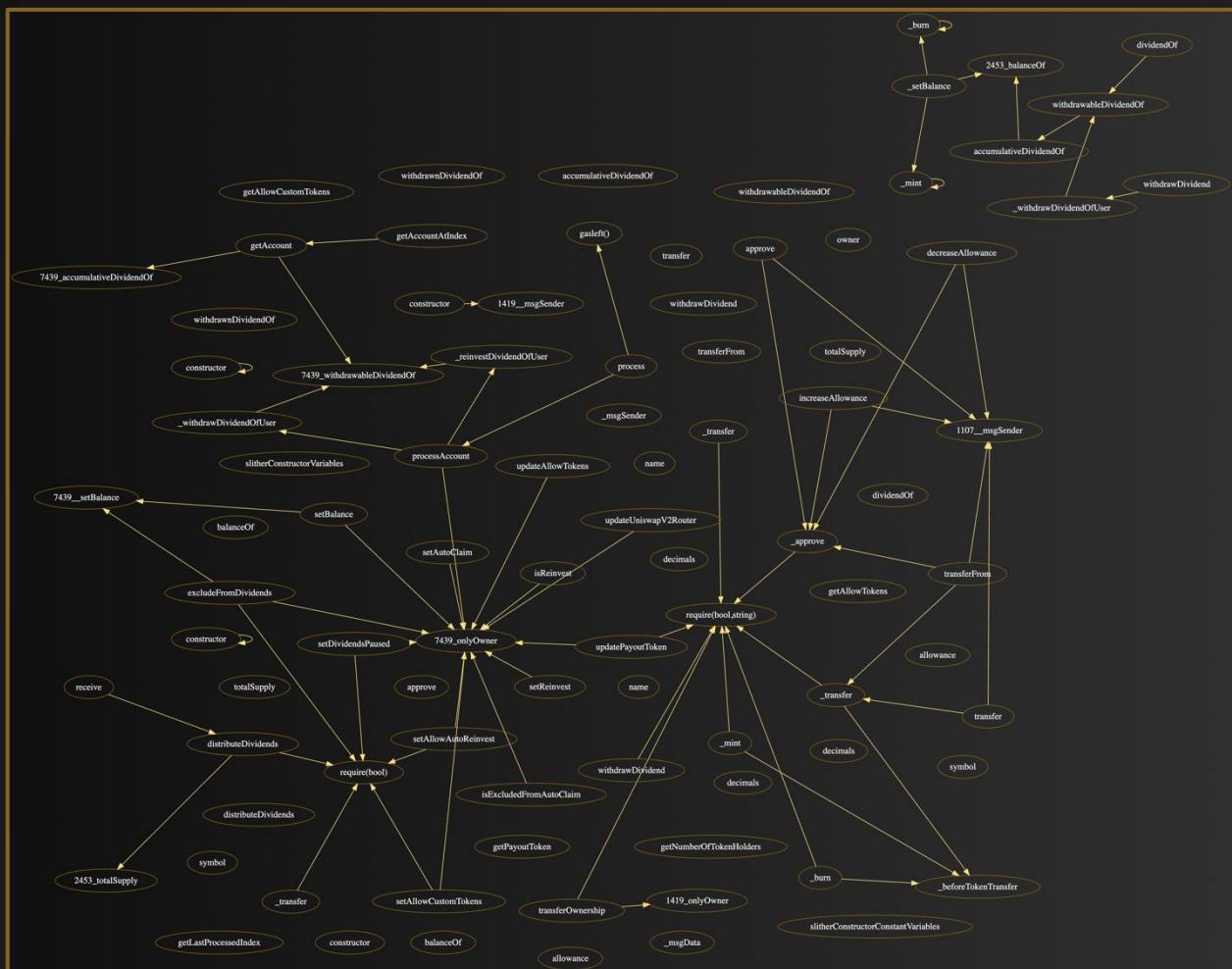
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Contract Functions Interaction





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Audit Overview

Threat Level

When conducting audit on smart contract(s), we first look for known vulnerabilities and issues within the code because any exploitation on such vulnerabilities and issues by malicious actors could potentially result in serious financial damage to the projects. All the issues and vulnerabilities will be categorized into the categories as provided below.

Critical

This category provides issues and vulnerabilities that are critical to the performance/functionality of the smart contract and should be fixed by project creator before moving to a live environment.

Medium

This category provides issues and vulnerabilities that are not that critical to the performance/functionality of the smart contract but is recommended to be fixed by project creator before moving to a live environment.

Minor

This category provides issues and vulnerabilities that are minor to the performance/functionality of the smart contract and can remain unfixed by project creator before moving to a live environment.

Informational

This category provides issues and vulnerability that have insignificant effect on the performance/functionality of the smart contract and can remain unfixed by project creator before moving to a live environment. However, fixing them can further improve the efficacy or security for features with a risk-free factor.



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Notable Information

- Contract Owner cannot stop or pause transactions.
- Contract Owner cannot transfer tokens from specific address.
- Contract Owner cannot mint new tokens after deploying smart contract.
- Contract Owner cannot burn tokens from specific wallet.
- Both buy and sell fees are set to be a total of 9% for normal transaction.
- Both buy and sell fees are set to be a total of 7% for referred transaction.
- Both buy and sell fees are set to be a total of 4% for early transaction.
- Both buy and sell fees can be change to a maximum total that starts from 17% for normal transaction, please refer caution section for the explanation.
- Both buy and sell fees can be change to a maximum total that starts from 22% for normal transaction, please refer caution section for the explanation.
- Both buy and sell fees can be change to a maximum total that starts from 25% for early transaction, please refer caution section for the explanation.
- There no limit for sell transaction since the max sell transaction amount was set to be the amount of the total supply.
- Contract Owner cannot blacklist wallets from selling.
- There are no compiler warnings when compiling the smart contracts.
- Contract is using interface from safe Zeppelin modules.



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Caution

- The project owner must manually enable trading. Without this action, transactions will be prohibited except for the owner's account and those wallets that have been approved during the presale whitelist.
- Currently, there is no limit on the maximum amount for sell transactions as it is set to the total supply. Nonetheless, the project owner holds the authority to adjust this figure, reducing it to as low as 1% of the total supply.
- It has been identified that calling the updateReferralTreeFees() function could lead to a potential bug in the total fee calculation. This is because the function does not impose any restrictions on the total referral fee that can be set by the project owner, which should be a maximum of 3% as defined in the update fee function. As a result, in certain scenarios, the total fee imposed could exceed 100% if multiple tiers are added. However, if the project owner updates the referral tree for tiers 1-3, the total referral fee will not exceed 0.09% as each tier is currently limited to a maximum of 0.03%, would not be an issue If tax and index remain constant.



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Bugs and Optimizations Detection

This table is based on the result obtained from running the smart contract through Slither's Solidity static analysis.

What it detects	Impact	Confidence	Status
Storage abiencoderv2 array	High	High	Passed
transferFrom uses arbitrary from	High	High	Passed
Modifying storage array by value	High	High	Passed
The order of parameters in a shift instruction is incorrect.	High	High	Passed
Multiple constructor schemes	High	High	Passed
Contract's name reused	High	High	Passed
Detected unprotected variables	High	High	Passed
Public mappings with nested variables	High	High	Passed
Right-To-Left-Override control character is used	High	High	Passed
State variables shadowing	High	High	Passed
Functions allowing anyone to destruct the contract	High	High	Passed
Uninitialized state variables	High	High	Passed
Uninitialized storage variables	High	High	Passed



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Unprotected upgradeable contract	High	High	Passed
transferFrom uses arbitrary from with permit	High	Medium	Passed
Functions that send Ether to arbitrary destinations	High	Medium	Moderated
Tainted array length assignment	High	Medium	Passed
Controlled delegatecall destination	High	Medium	Passed
Payable functions using delegatecall inside a loop	High	Medium	Passed
msg.value inside a loop	High	Medium	Passed
Reentrancy vulnerabilities (theft of ethers)	High	Medium	Moderated
Signed storage integer array compiler bug	High	Medium	Passed
Unchecked tokens transfer	High	Medium	Moderated
Weak PRNG	High	Medium	Passed
Detects ERC20 tokens that have a function whose signature collides with EIP-2612's DOMAIN_SEPARATOR()	Medium	High	Passed
Detect dangerous enum conversion	Medium	High	Passed
Incorrect ERC20 interfaces	Medium	High	Passed
Incorrect ERC721 interfaces	Medium	High	Passed
Dangerous strict equalities	Medium	High	Passed



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Contracts that lock ether	Medium	High	Passed
Deletion on mapping containing a structure	Medium	High	Passed
State variables shadowing from abstract contracts	Medium	High	Passed
Tautology or contradiction	Medium	High	Passed
Unused write	Medium	High	Passed
Misuse of Boolean constant	Medium	Medium	Passed
Constant functions using assembly code	Medium	Medium	Passed
Constant functions changing the state	Medium	Medium	Passed
Imprecise arithmetic operations order	Medium	Medium	Passed
Reentrancy vulnerabilities (no theft of ethers)	Medium	Medium	Moderated
Reused base constructor	Medium	Medium	Passed
Dangerous usage of tx.origin	Medium	Medium	Passed
Unchecked low-level calls	Medium	Medium	Passed
Unchecked send	Medium	Medium	Passed
Uninitialized local variables	Medium	Medium	Moderated
Unused return values	Medium	Medium	Passed
Modifiers that can return the default value	Low	High	Passed



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Built-in symbol shadowing	Low	High	Passed
Local variables shadowing	Low	High	Moderated
Uninitialized function pointer calls in constructors	Low	High	Passed
Local variables used prior their declaration	Low	High	Moderated
Constructor called not implemented	Low	High	Passed
Multiple calls in a loop	Low	Medium	Moderated
Missing Events Access Control	Low	Medium	Passed
Missing Events Arithmetic	Low	Medium	Moderated
Dangerous unary expressions	Low	Medium	Passed
Missing Zero Address Validation	Low	Medium	Moderated
Benign reentrancy vulnerabilities	Low	Medium	Moderated
Reentrancy vulnerabilities leading to out-of-order Events	Low	Medium	Moderated
Dangerous usage of block.timestamp	Low	Medium	Moderated
Assembly usage	Informational	High	Passed
Assert state change	Informational	High	Passed
Comparison to boolean constant	Informational	High	Passed
Deprecated Solidity Standards	Informational	High	Passed
Un-indexed ERC20 event parameters	Informational	High	Passed



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Function initializing state variables	Informational	High	Passed
Low level calls	Informational	High	Moderated
Missing inheritance	Informational	High	Passed
Conformity to Solidity naming conventions	Informational	High	Moderated
If different pragma directives are used	Informational	High	Passed
Redundant statements	Informational	High	Moderated
Incorrect Solidity version	Informational	High	Moderated
Unimplemented functions	Informational	High	Passed
Unused state variables	Informational	High	Moderated
Costly operations in a loop	Informational	Medium	Passed
Functions that are not used	Informational	Medium	Moderated
Reentrancy vulnerabilities through send and transfer	Informational	Medium	Passed
Variable names are too similar	Informational	Medium	Moderated
Conformance to numeric notation best practices	Informational	Medium	Moderated
State variables that could be declared constant	Optimization	High	Moderated
Public function that could be declared external	Optimization	High	Passed



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Contract Diagnostic

Link for initial smart contract being audited on Binance Smart Chain (Testnet):

<https://testnet.bscscan.com/address/0xc9db25a72060de4e6a774bb8da96843a8f5daee3>

CODE	SEVERITY	DESCRIPTION
SWC-101	Unknown	Compiler-rewritable "<uint> - 1" discovered.
SWC-110	Unknown	Out of bounds array access.
SWC-115	Minor	Use of "tx.origin" as a part of authorization control.
SWC-120	Minor	Potential use of "block.number" as source of randomness.
CaL	Minor	Loops with multiple calls.
UL	Informational	Uninitialized local variables.
UR	Informational	Unused return.
SL	Informational	Shadowing local.
DC	Informational	Dead code.
LLC	Informational	Low level calls.
NC	Informational	Naming convention.
SN	Informational	Similar name.
TMD	Informational	Too many digits.
US	Informational	Unused state variable.



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CS

Informational

State variable that can be declared as constant.



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SWC-101 — Compiler-rewritable "<uint> - 1" discovered

SEVERITY	Unknown
LOCATION(S)	ShibConnect.sol#L219, 2064, 2070, 2076

```
210     function remove(Map storage map, address key) internal {
211         if (!map.inserted[key]) {
212             return;
213         }
214
215         delete map.inserted[key];
216         delete map.values[key];
217
218         uint256 index = map.indexOf[key];
219         uint256 lastIndex = map.keys.length - 1;
220         address lastKey = map.keys[lastIndex];
221
222         map.indexOf[lastKey] = index;
223         delete map.indexOf[key];
224
225         map.keys[index] = lastKey;
226         map.keys.pop();
227     }
228 }
```



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```
2058 function updateReferralLeaderboards() private {
2059     // check if the daily/weekly/monthly leaderboards should be reset
2060
2061     if(block.timestamp >= dailyTimer){
2062         iterationDaily++;
2063         dailyTimer = block.timestamp + 8600;
2064         emit LeaderboardCompletion(1, iterationDaily - 1);
2065     }
2066
2067     if(block.timestamp >= weeklyTimer){
2068         iterationWeekly++;
2069         weeklyTimer = block.timestamp + 604800;
2070         emit LeaderboardCompletion(2, iterationWeekly - 1);
2071     }
2072
2073     if(block.timestamp >= monthlyTimer){
2074         iterationMonthly++;
2075         monthlyTimer = block.timestamp + 2629743;
2076         emit LeaderboardCompletion(3, iterationMonthly - 1);
2077     }
2078 }
```

DESCRIPTION	Compiler-rewritable "<uint> - 1" is discovered within the code, which could potentially result in underflow/negative values.
RECOMMENDATIONS	Solidity 0.8.0 onwards has an underflow check, so project creator doesn't have to worry about any invalid/underflow value and this should not produce any issue. No specific actions needed to be taken by project creator.
STATUS	N/A



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SWC-110 — Out of bounds array access

SEVERITY	Unknown
LOCATION(S)	ShibConnect.sol#L188, 220, 225, 1852-1853, 1923-1924, 2455, 2551-2552, 2621-2622

```
183 function getKeyAtIndex(Map storage map, uint256 index)
184     internal
185     view
186     returns (address)
187 {
188     return map.keys[index];
189 }
```

```
210 function remove(Map storage map, address key) internal {
211     if (!map.inserted[key]) {
212         return;
213     }
214
215     delete map.inserted[key];
216     delete map.values[key];
217
218     uint256 index = map.indexOf[key];
219     uint256 lastIndex = map.keys.length - 1;
220     address lastKey = map.keys[lastIndex];
221
222     map.indexOf[lastKey] = index;
223     delete map.indexOf[key];
224
225     map.keys[index] = lastKey;
226     map.keys.pop();
227 }
```



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```
1842 function swapTokensForEth(uint256 tokenAmount, address payable account) private {
1843     if(tokenAmount <= 0){
1844         return;
1845     }
1846     if(balanceOf(address(this)) < tokenAmount){
1847         tokenAmount = balanceOf(address(this));
1848     }
1849
1850     // generate the uniswap pair path of token -> weth
1851     address[] memory path = new address[](2);
1852     path[0] = address(this);
1853     path[1] = uniswapV2Router.WETH();
1854
1855     _approve(address(this), address(uniswapV2Router), tokenAmount);
1856
1857     // make the swap
1858     uniswapV2Router.swapExactTokensForETHSupportingFeeOnTransferTokens(
1859         tokenAmount,
1860         0, // accept any amount of ETH
1861         path,
1862         account,
1863         block.timestamp
1864     );
1865 }
```

```
1921
1922 address[] memory path = new address[](2);
1923 path[0] = uniswapV2Router.WETH();
1924 path[1] = dividendTracker.getPayoutToken(upcoming);
1925
```

```
2549
2550 address[] memory path = new address[](2);
2551 path[0] = uniswapV2Router.WETH();
2552 path[1] = address(shibConnect);
2553
```



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```
2448 while (gasUsed < gas && iterations < numberOfTokenHolders) {  
2449     _lastProcessedIndex++;  
2450  
2451     if (_lastProcessedIndex >= numberOfTokenHolders) {  
2452         _lastProcessedIndex = 0;  
2453     }  
2454  
2455     address account = tokenHoldersMap.keys[_lastProcessedIndex];  
2456  
2457     if (!excludedFromAutoClaim[account]) {  
2458         if (processAccount(payable(account), true)) {  
2459             claims++;  
2460         }  
2461     }  
2462  
2463     iterations++;  
2464  
2465     uint256 newGasLeft = gasleft();  
2466  
2467     if (gasLeft > newGasLeft) {  
2468         gasUsed = gasUsed.add(gasLeft.sub(newGasLeft));  
2469     }  
2470  
2471     gasLeft = newGasLeft;  
2472 }
```

```
2619 //investor wants to be payed out in a custom token  
2620 address[] memory path = new address[](2);  
2621 path[0] = uniswapV2Router.WETH();  
2622 path[1] = tokenAddress;  
2623
```

DESCRIPTION	The index access expression can cause an exception in case of use of invalid array index value.
RECOMMENDATIONS	As long as project creator is careful with the index access expression to prevent an exception in case of use of invalid array index value, this should not produce any



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	issue. No specific actions needed to be taken by project creator.
STATUS	N/A



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SWC-115 — Use of "tx.origin" as a part of authorization control

SEVERITY	Minor
LOCATION(S)	ShibConnect.sol#L1510, 1760

```
1498     function processDividendTracker(uint256 gas) external {
1499         (
1500             uint256 iterations,
1501             uint256 claims,
1502             uint256 lastProcessedIndex
1503         ) = dividendTracker.process(gas);
1504         emit ProcessedDividendTracker(
1505             iterations,
1506             claims,
1507             lastProcessedIndex,
1508             false,
1509             gas,
1510             tx.origin
1511         );
1512     }
```

```
1749     try dividendTracker.process(gas) returns (
1750         uint256 iterations,
1751         uint256 claims,
1752         uint256 lastProcessedIndex
1753     ) {
1754         emit ProcessedDividendTracker(
1755             iterations,
1756             claims,
1757             lastProcessedIndex,
1758             true,
1759             gas,
1760             tx.origin
1761         );
1762     } catch { }
```



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DESCRIPTION	Using "tx.origin" as a security control can lead to authorization bypass vulnerabilities.
RECOMMENDATIONS	We would recommend project creator to consider using "msg.sender" unless you really know what you are doing. Other than that, no specific actions needed to be taken by project creator.
STATUS	N/A



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SWC-120 — Potential use of "block.number" as source of randomness

SEVERITY	Minor
LOCATION(S)	ShibConnect.sol#L1241, 1636

```
1237 function enableTrading() external onlyOwner {  
1238     require(!tradingEnabled, "trading already enabled");  
1239     tradingEnabled = true;  
1240     enableConvertingReferralRewards = true;  
1241     blockNumEnabled = block.number;  
1242     emit TradingEnabled();  
1243 }
```

```
1635  
1636 if(block.number < blockNumEnabled + earlyBlocks){  
1637     devFees = earlyTax;  
1638     liquidityFee = 0;  
1639     BNBRewardsBuyFee = 0;  
1640     BNBRewardsSellFee = 0;  
1641 }  
1642
```

DESCRIPTION	The environment variable "block.number" looks like it might be used as a source of randomness to trigger a function.
RECOMMENDATIONS	We would recommend project owner to not use any of the environment variables like coinbase, gaslimit, block number and timestamp as sources of randomness since they are predictable and be aware that such usage could introduces a certain level of trust into miners. Keep in



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	<p>mind that malicious miner can manipulate the value of those variables and that any attackers could also predetermine the hashes of earlier blocks.</p> <p>However, based on our analysis, there's nothing to be done by project owner since in each of the "block.number" value was used as a means to keep track of time/epoch that relates to the trigger of a specific function.</p>
STATUS	N/A



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CaL — Loops with multiple calls

SEVERITY	Minor
LOCATION(S)	ShibConnect.sol#L2538-2592, 2594-2654

```
2537
2538     function _reinvestDividendOfUser(address account)
2539         private
2540         returns (uint256)
2541     {
2542         uint256 _withdrawableDividend = withdrawableDividendOf(account);
2543         if (_withdrawableDividend > 0) {
2544             bool success;
2545
2546             withdrawnDividends[account] = withdrawnDividends[account].add(
2547                 _withdrawableDividend
2548             );
2549
2550             address[] memory path = new address[](2);
2551             path[0] = uniswapV2Router.WETH();
2552             path[1] = address(shibConnect);
2553
2554             uint256 prevBalance = shibConnect.balanceOf(address(this));
2555
2556             // make the swap
2557             try
2558                 uniswapV2Router
2559                     .swapExactETHForTokensSupportingFeeOnTransferTokens{
2560                         value: _withdrawableDividend
2561                     }(
2562                         0, // accept any amount of Tokens
2563                         path,
2564                         address(this),
2565                         block.timestamp
2566                     )
2567             {
2568                 uint256 received = shibConnect.balanceOf(address(this)).sub(
2569                     prevBalance
2570                 );
2571                 if (received > 0) {
2572                     success = true;
2573                     shibConnect.transfer(account, received);
2574                 } else {
2575                     success = false;
2576                 }
2577             } catch {
2578                 success = false;
2579             }
2580
2581             if (!success) {
2582                 withdrawnDividends[account] = withdrawnDividends[account].sub(
2583                     _withdrawableDividend
2584                 );
2585                 return 0;
2586             }
2587
2588             return _withdrawableDividend;
2589         }
2590
2591         return 0;
2592     }
2593 }
```



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```
2594 function _withdrawDividendOfUser(address payable user)
2595     internal
2596     override
2597     returns (uint256)
2598 {
2599     uint256 _withdrawableDividend = withdrawableDividendOf(user);
2600     if (_withdrawableDividend > 0) {
2601         withdrawnDividends[user] = withdrawnDividends[user].add(
2602             _withdrawableDividend
2603         );
2604
2605         address tokenAddress = payoutToken[user];
2606         bool success;
2607
2608         // if no tokenAddress assume bnb payout
2609         if (
2610             !allowCustomTokens ||
2611             tokenAddress == address(0) ||
2612             !allowTokens[tokenAddress]
2613         ) {
2614             (success, ) = user.call{
2615                 value: _withdrawableDividend,
2616                 gas: 3000
2617             }("");
2618         } else {
2619             //investor wants to be payed out in a custom token
2620             address[] memory path = new address[](2);
2621             path[0] = uniswapV2Router.WETH();
2622             path[1] = tokenAddress;
2623
2624             try
2625                 uniswapV2Router
2626                     .swapExactETHForTokensSupportingFeeOnTransferTokens{
2627                         value: _withdrawableDividend
2628                     }(
2629                         0, // accept any amount of Tokens
2630                         path,
2631                         user,
2632                         block.timestamp
2633                     )
2634             {
2635                 success = true;
2636             } catch {
2637                 success = false;
2638             }
2639         }
2640
2641         if (!success) {
2642             withdrawnDividends[user] = withdrawnDividends[user].sub(
2643                 _withdrawableDividend
2644             );
2645             return 0;
2646         } else {
2647             emit DividendWithdrawn(user, _withdrawableDividend);
2648         }
2649
2650         return _withdrawableDividend;
2651     }
2652
2653     return 0;
2654 }
```



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DESCRIPTION	[ShibConnectDividendTracker._reinvestDividendOfUser] (#L2538-2592) has external calls inside a loop at line #L2551, 2554, 2557-2579 [ShibConnectDividendTracker._withdrawDividendOfUser] (#L2594-2654) has external calls inside a loop at line #L2614-2617, 2621, 2624-2638
RECOMMENDATIONS	Project creator can choose to either make use of pull over push strategy for external calls or ignore the issues since the logic does require such function(s).
STATUS	N/A



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UL — Uninitialized local variables

SEVERITY	Informational — Medium
LOCATION(S)	ShibConnect.sol#L1750 – 1752, 1887, 2544, 2606

```
1748
1749     try dividendTracker.process(gas) returns (
1750         uint256 iterations,
1751         uint256 claims,
1752         uint256 lastProcessedIndex
1753     ) {
1754         emit ProcessedDividendTracker(
1755             iterations,
1756             claims,
1757             lastProcessedIndex,
1758             true,
1759             gas,
1760             tx.origin
1761         );
1762     } catch { }
1763
```

```
1885
1886     uint256 initialBalance;
1887     uint256 newBalance;
1888
```



Revoluzion Audit

```
2543 if (_withdrawableDividend > 0) {
2544     bool success;
2545
2546     withdrawnDividends[account] = withdrawnDividends[account].add(
2547         _withdrawableDividend
2548     );
2549
2550     address[] memory path = new address[](2);
2551     path[0] = uniswapV2Router.WETH();
2552     path[1] = address(shibConnect);
2553
2554     uint256 prevBalance = shibConnect.balanceOf(address(this));
2555
2556     // make the swap
2557     try
2558         uniswapV2Router
2559             .swapExactETHForTokensSupportingFeeOnTransferTokens{
2560                 value: _withdrawableDividend
2561             }(
2562                 0, // accept any amount of Tokens
2563                 path,
2564                 address(this),
2565                 block.timestamp
2566             )
2567     {
2568         uint256 received = shibConnect.balanceOf(address(this)).sub(
2569             prevBalance
2570         );
2571         if (received > 0) {
2572             success = true;
2573             shibConnect.transfer(account, received);
2574         } else {
2575             success = false;
2576         }
2577     } catch {
2578         success = false;
2579     }
2580
2581     if (!success) {
2582         withdrawnDividends[account] = withdrawnDividends[account].sub(
2583             _withdrawableDividend
2584         );
2585         return 0;
2586     }
2587
2588     return _withdrawableDividend;
2589 }
2590 }
```



Revoluzion Audit

```
2604  
2605 address tokenAddress = payoutToken[user];  
2606 bool success;  
2607
```

DESCRIPTION	[ShibConnect._transfer().iterations] (#L1750) is a local variable that is never initialized. [ShibConnect._transfer().claims] (#L1751) is a local variable that is never initialized. [ShibConnect._transfer().lastProcessedIndex] (#L1752) is a local variable that is never initialized. [ShibConnect.swapTokensForPayoutToken().newBalance] (#L1887) is a local variable that is never initialized. [ShibConnectDividendTracker._reinvestDividendOfUser().success] (#L2544) is a local variable that is never initialized. [ShibConnectDividendTracker._withdrawDividendOfUser().success] (#L2606) is a local variable that is never initialized.
RECOMMENDATIONS	Project creator is recommended to initialize all the variables even if a variable is meant to be initialized to zero, it is better to explicitly set it to zero for the purpose of improving the readability of the code.
STATUS	N/A



Revoluzion Audit

UR — Unused return

SEVERITY	Informational — Medium
LOCATION(S)	ShibConnect.sol#L1193, 1515, 1749-1762, 2111-2118

```
1186
1187 // exclude from receiving dividends
1188 dividendTracker.excludeFromDividends(address(dividendTracker));
1189 dividendTracker.excludeFromDividends(address(this));
1190 dividendTracker.excludeFromDividends(
1191     0x000000000000000000000000000000000000000dEaD
1192 );
1193 dividendTracker.excludedFromDividends(address(0));
1194 dividendTracker.excludeFromDividends(owner());
1195 dividendTracker.excludeFromDividends(address(uniswapV2Router));
1196
```

```
1513
1514 function claim() external {
1515     dividendTracker.processAccount(payable(msg.sender), false);
1516 }
1517
```



Revolution Audit

```
1748
1749     try dividendTracker.process(gas) returns (
1750         uint256 iterations,
1751         uint256 claims,
1752         uint256 lastProcessedIndex
1753     ) {
1754         emit ProcessedDividendTracker(
1755             iterations,
1756             claims,
1757             lastProcessedIndex,
1758             true,
1759             gas,
1760             tx.origin
1761         );
1762     } catch { }
1763
```

```
2105
2106     function addLiquidity(uint256 tokenAmount, uint256 ethAmount) private {
2107         // approve token transfer to cover all possible scenarios
2108         _approve(address(this), address(uniswapV2Router), tokenAmount);
2109
2110         // add the liquidity
2111         uniswapV2Router.addLiquidityETH{value: ethAmount}(
2112             address(this),
2113             tokenAmount,
2114             0, // slippage is unavoidable
2115             0, // slippage is unavoidable
2116             liquidityWallet,
2117             block.timestamp
2118         );
2119     }
2120
```

DESCRIPTION

[ShibConnect.constructor()] (#L1169-1217) ignores return value by [dividendTracker.excludedFromDividends()] (#1193)

[ShibConnect.claim()] (#L1514-1516) ignores return value by [dividendTracker.processAccount()] (#1515)



Revoluzion Audit

	[ShibConnect._transfer()] (#L1584-1779) ignores return value by [dividendTracker.process()] (#L1749-1762) [ShibConnect.addLiquidity()] (#L2106-2119) ignores return value by [uniswapV2Router.addLiquidityETH()] (#L2111-2118)
RECOMMENDATIONS	We recommend project creator to ensure that all the return values of the function calls within the smart contract are used.
STATUS	N/A



Revoluzion Audit

SL — Shadowing local

SEVERITY	Informational — Minor
LOCATION(S)	ShibConnect.sol#L282-283, 877
<pre>281 282 string private _name; 283 string private _symbol; 284</pre>	
<pre>876 877 constructor(string memory _name, string memory _symbol) 878 ERC20(_name, _symbol) 879 {} 880</pre>	
DESCRIPTION	[DividendPayingToken.constructor()._name] (#L877) shadows [ERC20._name] (#L282) [DividendPayingToken.constructor()._symbol] (#L877) shadows [ERC20._symbol] (#L283)
RECOMMENDATIONS	Based on our analysis, this is a direct use of Zeppelin modules. Hence, project owner is not required to actually rename the local variables that shadow another component.
STATUS	N/A



Revoluzion Audit

DC — Dead code

SEVERITY	Informational — Medium
LOCATION(S)	ShibConnect.sol#L14-17, 168-170, 549-551, 554-561, 606-612, 614-619, 634-637, 904-931, 969-984

```
14  function _msgData() internal view virtual returns (bytes memory) {
15      this;
16      return msg.data;
17 }
```

```
168 function get(Map storage map, address key) internal view returns (uint256) {
169     return map.values[key];
170 }
```

```
549 function mod(uint256 a, uint256 b) internal pure returns (uint256) {
550     return mod(a, b, "SafeMath: modulo by zero");
551 }
```

```
606 function mul(int256 a, int256 b) internal pure returns (int256) {
607     int256 c = a * b;
608
609     require(c != MIN_INT256 || (a & MIN_INT256) != (b & MIN_INT256));
610     require((b == 0) || (c / b == a));
611     return c;
612 }
```



Revolution Audit

```
554 function mod(
555     uint256 a,
556     uint256 b,
557     string memory errorMessage
558 ) internal pure returns (uint256) {
559     require(b != 0, errorMessage);
560     return a % b;
561 }
```

```
614 function div(int256 a, int256 b) internal pure returns (int256) {
615     // Prevent overflow when dividing MIN_INT256 by -1
616     require(b != -1 || a != MIN_INT256);
617
618     return a / b;
619 }
```

```
634 function abs(int256 a) internal pure returns (int256) {
635     require(a != MIN_INT256);
636     return a < 0 ? -a : a;
637 }
```



Revoluzion Audit

```
904     function _withdrawDividendOfUser(address payable user)
905         internal
906         virtual
907         returns (uint256)
908     {
909         uint256 _withdrawableDividend = withdrawableDividendOf(user);
910         if (_withdrawableDividend > 0) {
911             withdrawnDividends[user] = withdrawnDividends[user].add(
912                 _withdrawableDividend
913             );
914             emit DividendWithdrawn(user, _withdrawableDividend);
915             (bool success, ) = user.call{
916                 value: _withdrawableDividend,
917                 gas: 3000
918             }("");
919             if (!success) {
920                 withdrawnDividends[user] = withdrawnDividends[user].sub(
921                     _withdrawableDividend
922                 );
923                 return 0;
924             }
925         }
926         return _withdrawableDividend;
927     }
928     return 0;
929 }
930 }
```

```
969     function _transfer(
970         address from,
971         address to,
972         uint256 value
973     ) internal virtual override {
974         require(false);
975
976         int256 _magCorrection = magnifiedDividendPerShare
977             .mul(value)
978             .toInt256Safe();
979         magnifiedDividendCorrections[from] = magnifiedDividendCorrections[from]
980             .add(_magCorrection);
981         magnifiedDividendCorrections[to] = magnifiedDividendCorrections[to].sub(
982             _magCorrection
983         );
984     }
```

DESCRIPTION

[Context._msgData()] (#L14-17) is never used and should be removed.

[IterableMapping.get()] (#L168-170) is never used and should be removed.



Revoluzion Audit

	<p>[SafeMath.mod()] (#L549-551) is never used and should be removed.</p> <p>[SafeMathInt.mod()] (#L554-561) is never used and should be removed.</p> <p>[SafeMathInt.mul()] (#L606-612) is never used and should be removed.</p> <p>[SafeMathInt.div()] (#L614-619) is never used and should be removed.</p> <p>[SafeMathInt.abs()] (#L634-637) is never used and should be removed.</p> <p>[DividendPayingToken._withdrawDividendOfUser()] (#L904-931) is never used and should be removed.</p> <p>[DividendPayingToken._transfer()] (#L969-984) is never used and should be removed.</p>
RECOMMENDATIONS	<p>Based on our analysis, the Address, Context and SafeMath smart contracts is the standard that is a direct fork from Open Zeppelin while IterableMapping and SafeMathInt smart contract is a derivative from the standard used by many and the DividendPayingToken is a custom contract made by project owner.</p> <p>While other functions within these smart contracts were used in some part throughout the smart contract, these functions are not being used anywhere at all.</p> <p>It is recommended for project creator to remove those functions to further optimize the smart contract since they are not used anywhere at all. Doing so will reduce the amount of gas required when deploying the smart contract.</p>
STATUS	N/A



Revoluzion Audit

LLC — Low level calls

SEVERITY	Informational — Medium
LOCATION(S)	ShibConnect.sol#L915-918, 2151, 2165, 2614-2617

```
904     function _withdrawDividendOfUser(address payable user)
905         internal
906         virtual
907         returns (uint256)
908     {
909         uint256 _withdrawableDividend = withdrawableDividendOf(user);
910         if (_withdrawableDividend > 0) {
911             withdrawnDividends[user] = withdrawnDividends[user].add(
912                 _withdrawableDividend
913             );
914             emit DividendWithdrawn(user, _withdrawableDividend);
915             (bool success, ) = user.call{
916                 value: _withdrawableDividend,
917                 gas: 3000
918             }("");
919
920             if (!success) {
921                 withdrawnDividends[user] = withdrawnDividends[user].sub(
922                     _withdrawableDividend
923                 );
924                 return 0;
925             }
926             return _withdrawableDividend;
927         }
928     }
929
930     return 0;
931 }
```

```
2150
2151     (bool success, ) = address(dividendTracker).call{value: BNBRewardsFeeBNB}("");
2152
```

```
2164
2165     (bool successMarketing, ) = address(marketingAddress).call{value: devFeesBNB}("");
2166
```



Revoluzion Audit

```
2614         (success, ) = user.call{
2615             value: _withdrawableDividend,
2616             gas: 3000
2617         }("");
2618
```

DESCRIPTION	[DividendPayingToken._withdrawDividendOfUser()] (#L904-931) is using low level call at #L915-918. [ShibConnect.swapAndSendDividendsAndMarketingFunds ()] (#L2126-2172) is using low level call at #L2151 and #L2165. [ShibConnectDividendTracker._withdrawDividendOfUser()] (#L2594-2654) is using low level call at #L2614-2617.
RECOMMENDATION S	Project creator should avoid using low-level calls. Make sure to check the call success or for code existence if the call is meant for a contract. The use of low-level calls is usually error-prone since they do not check for code existence or call success.
STATUS	N/A



Revoluzion Audit

NC — Naming convention

SEVERITY	Informational — Minor
LOCATION(S)	ShibConnect.sol#L53, 55, 86, 656, 868, 933, 937, 946, 955, 1040-1043, 1372-1373, 1393-1394, 1575-1576, 1981, 2332

```
52
53 function DOMAIN_SEPARATOR() external view returns (bytes32);
54
55 function PERMIT_TYPEHASH() external pure returns (bytes32);
56
```

```
85
86 function MINIMUM_LIQUIDITY() external pure returns (uint256);
87
```

```
655
656 function WETH() external pure returns (address);
657
```

```
867
868 uint256 internal constant magnitude = 2**128;
869
```



Revoluzion Audit

```
932
933 function dividendOf(address _owner) public view override returns (uint256) {
934     return withdrawableDividendOf(_owner);
935 }
936
937 function withdrawableDividendOf(address _owner)
938     public
939     view
940     override
941     returns (uint256)
942 {
943     return accumulativeDividendOf(_owner).sub(withdrawnDividends[_owner]);
944 }
945
946 function withdrawnDividendOf(address _owner)
947     public
948     view
949     override
950     returns (uint256)
951 {
952     return withdrawnDividends[_owner];
953 }
954
```

```
954
955 function accumulativeDividendOf(address _owner)
956     public
957     view
958     override
959     returns (uint256)
960 {
961     return
962         magnifiedDividendPerShare
963             .mul(balanceOf(_owner))
964             .toInt256Safe()
965             .add(magnifiedDividendCorrections[_owner])
966             .toUInt256Safe() / magnitude;
967 }
968
```

```
1040 uint256 public BNBRewardsBuyFee = 0;
1041 uint256 public BNBRewardsBuyFeeReferred = 0;
1042 uint256 public BNBRewardsSellFee = 0;
1043 uint256 public BNBRewardsSellFeeReferred = 0;
```



Revoluzion Audit

```
1368
1369 function updateFees(
1370     uint256 dev,
1371     uint256 liquidity,
1372     uint256 BNBRewardsBuy,
1373     uint256 BNBRewardsSell,
1374     uint256 referral
1375 ) public onlyOwner {
1376     require(referral <= 5,"Cannot set referral fee over 5%");
1377     require(dev <= 5,"Cannot set dev fee over 5%");
1378     require(BNBRewardsBuy <= 2,"Cannot set BNReward fee over 2%");
1379     require(BNBRewardsSell <= 2,"Cannot set BNReward fee over 2%");
1380     require(liquidity <= 5,"Cannot set liquidity fee over 5%");
1381     devFees = dev;
1382     liquidityFee = liquidity;
1383     BNBRewardsBuyFee = BNBRewardsBuy;
1384     BNBRewardsSellFee = BNBRewardsSell;
1385     referralFee = referral;
1386
1387     emit UpdateFees(dev, liquidity, BNBRewardsBuy, BNBRewardsSell, referralFee);
1388 }
1389
```

```
1389
1390 function updateFeesReferred(
1391     uint256 devReferred,
1392     uint256 liquidityReferred,
1393     uint256 BNBRewardsBuyReferred,
1394     uint256 BNBRewardsSellReferred
1395 ) public onlyOwner {
1396     require(BNBRewardsBuyReferred <= 2,"Cannot set BNReward fee over 2%");
1397     require(BNBRewardsSellReferred <= 2,"Cannot set BNReward fee over 2%");
1398     require(devReferred <= 10,"Cannot set dev fee over 10%");
1399     require(liquidityReferred <= 10,"Cannot set liquidity fee over 10%");
1400     devFeesReferred = devReferred;
1401     liquidityFeeReferred = liquidityReferred;
1402     BNBRewardsBuyFeeReferred = BNBRewardsBuyReferred;
1403     BNBRewardsSellFeeReferred = BNBRewardsSellReferred;
1404
1405     emit UpdateFeesReferred(devReferred, liquidityReferred, BNBRewardsBuyReferred, BNBRewardsSellReferred);
1406 }
1407
```

```
1575 uint256 private BNBRewardsBuyFeeActual;
1576 uint256 private BNBRewardsSellFeeActual;
```



Revoluzion Audit

```
1980
1981 function setReferrer(address _referrer) public {
1982     require(_referrer != address(0),"Not a valid referrer");
1983     require(_referrer != msg.sender, "You cannot refer yourself");
1984     require(referrerTree[msg.sender][0] == address(0), "Referrer cannot be changed!");
1985
1986     // add the direct referrer to the user's payout tree
1987     referrerTree[msg.sender][0] = _referrer;
1988     referralCount[_referrer] = referralCount[_referrer] + 1;
1989
1990     // check if the referrer was referred through a tree of their own;
1991     // set payout tree accordingly if so
1992     for(int i = 0; i < referralTreeFeesLength - 1; i++){
1993         address treeAddress = referrerTree[_referrer][i];
1994
1995         if(treeAddress == address(0x000000000000000000000000000000000000000000000000000000000000000)){
1996             break;
1997         }
1998
1999         referrerTree[msg.sender][i + 1] = treeAddress;
2000         referralCountBranched[treeAddress] = referralCountBranched[treeAddress] + 1;
2001     }
2002
2003     emit ReferredBy(_referrer, msg.sender, iterationDaily, iterationWeekly, iterationMonthly);
2004 }
```

```
2331
2332 function getAccount(address _account)
2333     public
2334     view
2335     returns (
2336         address account,
2337         int256 index,
2338         int256 iterationsUntilProcessed,
2339         uint256 withdrawableDividends,
2340         uint256 totalDividends,
2341         uint256 lastClaimTime
2342     )
2343 {
2344     account = _account;
2345
2346     index = tokenHoldersMap.getIndexByKey(account);
2347
2348     iterationsUntilProcessed = -1;
2349
2350     if (index >= 0) {
2351         if (uint256(index) > lastProcessedIndex) {
2352             iterationsUntilProcessed = index.sub(
2353                 int256(lastProcessedIndex)
2354             );
2355         } else {
2356             uint256 processesUntilEndOfArray = tokenHoldersMap.keys.length >
2357                 lastProcessedIndex
2358                 ? tokenHoldersMap.keys.length.sub(lastProcessedIndex)
2359                 : 0;
2360
2361             iterationsUntilProcessed = index.add(
2362                 int256(processesUntilEndOfArray)
2363             );
2364         }
2365     }
2366
2367     withdrawableDividends = withdrawableDividendOf(account);
2368     totalDividends = accumulativeDividendOf(account);
2369
2370     lastClaimTime = lastClaimTimes[account];
2371 }
```



Revoluzion Audit

DESCRIPTION	
	[IUniswapV2Pair.DOMAIN_SEPARATOR] (#L53) is not in mixedCase. [IUniswapV2Pair.PERMIT_TYPEHASH] (#L55) is not in mixedCase. [IUniswapV2Pair.MINIMUM_LIQUIDITY] (#L86) is not in mixedCase. [IUniswapV2Router01.WETH] (#L656) is not in mixedCase. [DividendPayingToken.dividendOf()._owner] (#L933) is not in mixedCase. [DividendPayingToken.withdrawableDividendOf()._owner] (#L937) is not in mixedCase. [DividendPayingToken.withdrawnDividendOf()._owner] (#L946) is not in mixedCase. [DividendPayingToken.accumulativeDividendOf()._owner] (#L955) is not in mixedCase. [ShibConnect.BNBRewardsBuyFee] (#L1040) is not in mixedCase. [ShibConnect.BNBRewardsBuyFeeReferred] (#L1041) is not in mixedCase. [ShibConnect.BNBRewardsSellFee] (#L1042) is not in mixedCase. [ShibConnect.BNBRewardsSellFeeReferred] (#L1043) is not in mixedCase. [ShibConnect.updateFees().BNBRewardsBuy] (#L1372) is not in mixedCase. [ShibConnect.updateFees().BNBRewardsSell] (#L1373) is not in mixedCase. [ShibConnect.updateFeesReferred().BNBRewardsBuyReferred] (#L1393) is not in mixedCase. [ShibConnect.updateFeesReferred().BNBRewardsSellReferred] (#L1394) is not in mixedCase. [ShibConnect.BNBRewardsBuyFeeActual] (#L1575) is not in mixedCase.



Revoluzion Audit

	<p>[ShibConnect.BNBRewardsSellFeeActual] (#L1576) is not in mixedCase.</p> <p>[ShibConnect.setReferrer()._referrer] (#L1981) is not in mixedCase.</p> <p>[ShibConnectDividendTracker.getAccount()._account] (#L2332) is not in mixedCase.</p> <p>[DividendPayingToken.magnitude] (#L868) is not in UPPER_CASE_WITH_UNDERSCORES.</p>
RECOMMENDATION S	Based on our analysis, the IUniswapV2Pair and IUniswapV2Router01 smart contract are direct forks from Uniswap. Although the name doesn't conform to the standard convention, it's still okay to leave it be to avoid from potentially breaking any external function. However, for ShibConnect and DividendPayingToken smart contracts, it is okay for project creator to update the name of the parameters in those functions so that they conform to the standard naming convention.
STATUS	N/A



Revolution Audit

SN — Similar name

SEVERITY	Informational — Minor
LOCATION(S)	ShibConnect.sol#L661-662, 909, 2339, 2542, 2599

```
658     function addLiquidity(
659         address tokenA,
660         address tokenB,
661         uint256 amountADesired,
662         uint256 amountBDesired,
663         uint256 amountAMin,
664         uint256 amountBMin,
665         address to,
666         uint256 deadline
667     )
668     external
669     returns (
670         uint256 amountA,
671         uint256 amountB,
672         uint256 liquidity
673     );
```



Revoluzion Audit

```
2537
2538     function _reinvestDividendOfUser(address account)
2539         private
2540         returns (uint256)
2541     {
2542         uint256 _withdrawableDividend = withdrawableDividendOf(account);
2543         if (_withdrawableDividend > 0) {
2544             bool success;
2545
2546             withdrawnDividends[account] = withdrawnDividends[account].add(
2547                 _withdrawableDividend
2548             );
2549
2550             address[] memory path = new address[](2);
2551             path[0] = uniswapV2Router.WETH();
2552             path[1] = address(shibConnect);
2553
2554             uint256 prevBalance = shibConnect.balanceOf(address(this));
2555
2556             // make the swap
2557             try
2558                 uniswapV2Router
2559                     .swapExactETHForTokensSupportingFeeOnTransferTokens{
2560                         value: _withdrawableDividend
2561                     }()
2562                     0, // accept any amount of Tokens
2563                     path,
2564                     address(this),
2565                     block.timestamp
2566                 )
2567             {
2568                 uint256 received = shibConnect.balanceOf(address(this)).sub(
2569                     prevBalance
2570                 );
2571                 if (received > 0) {
2572                     success = true;
2573                     shibConnect.transfer(account, received);
2574                 } else {
2575                     success = false;
2576                 }
2577             } catch {
2578                 success = false;
2579             }
2580
2581             if (!success) {
2582                 withdrawnDividends[account] = withdrawnDividends[account].sub(
2583                     _withdrawableDividend
2584                 );
2585                 return 0;
2586             }
2587
2588             return _withdrawableDividend;
2589         }
2590
2591         return 0;
2592     }
2593 }
```



Revoluzion Audit

```
2331
2332 function getAccount(address _account)
2333     public
2334     view
2335     returns (
2336         address account,
2337         int256 index,
2338         int256 iterationsUntilProcessed,
2339         uint256 withdrawableDividends,
2340         uint256 totalDividends,
2341         uint256 lastClaimTime
2342     )
2343 {
2344     account = _account;
2345
2346     index = tokenHoldersMap.getIndexForKey(account);
2347
2348     iterationsUntilProcessed = -1;
2349
2350     if (index >= 0) {
2351         if (uint256(index) > lastProcessedIndex) {
2352             iterationsUntilProcessed = index.sub(
2353                 int256(lastProcessedIndex)
2354             );
2355         } else {
2356             uint256 processesUntilEndOfArray = tokenHoldersMap.keys.length >
2357                 lastProcessedIndex
2358                 ? tokenHoldersMap.keys.length.sub(lastProcessedIndex)
2359                 : 0;
2360
2361             iterationsUntilProcessed = index.add(
2362                 int256(processesUntilEndOfArray)
2363             );
2364         }
2365     }
2366
2367     withdrawableDividends = withdrawableDividendOf(account);
2368     totalDividends = accumulativeDividendOf(account);
2369
2370     lastClaimTime = lastClaimTimes[account];
2371 }
2372 }
```



Revoluzion Audit

```
903
904     function _withdrawDividendOfUser(address payable user)
905         internal
906         virtual
907         returns (uint256)
908     {
909         uint256 _withdrawableDividend = withdrawableDividendOf(user);
910         if (_withdrawableDividend > 0) {
911             withdrawnDividends[user] = withdrawnDividends[user].add(
912                 _withdrawableDividend
913             );
914             emit DividendWithdrawn(user, _withdrawableDividend);
915             (bool success, ) = user.call{
916                 value: _withdrawableDividend,
917                 gas: 3000
918             }("");
919
920             if (!success) {
921                 withdrawnDividends[user] = withdrawnDividends[user].sub(
922                     _withdrawableDividend
923                 );
924                 return 0;
925             }
926
927             return _withdrawableDividend;
928         }
929
930         return 0;
931     }
932 }
```



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```
2594 function _withdrawDividendOfUser(address payable user)
2595     internal
2596     override
2597     returns (uint256)
2598 {
2599     uint256 _withdrawableDividend = withdrawableDividendOf(user);
2600     if (_withdrawableDividend > 0) {
2601         withdrawnDividends[user] = withdrawnDividends[user].add(
2602             _withdrawableDividend
2603         );
2604
2605         address tokenAddress = payoutToken[user];
2606         bool success;
2607
2608         // if no tokenAddress assume bnb payout
2609         if (
2610             !allowCustomTokens ||
2611             tokenAddress == address(0) ||
2612             !allowTokens[tokenAddress]
2613         ) {
2614             (success, ) = user.call{
2615                 value: _withdrawableDividend,
2616                 gas: 3000
2617             }("");
2618         } else {
2619             //investor wants to be payed out in a custom token
2620             address[] memory path = new address[](2);
2621             path[0] = uniswapV2Router.WETH();
2622             path[1] = tokenAddress;
2623
2624             try
2625                 uniswapV2Router
2626                     .swapExactETHForTokensSupportingFeeOnTransferTokens{
2627                         value: _withdrawableDividend
2628                     }(
2629                         0, // accept any amount of Tokens
2630                         path,
2631                         user,
2632                         block.timestamp
2633                     )
2634             {
2635                 success = true;
2636             } catch {
2637                 success = false;
2638             }
2639         }
2640
2641         if (!success) {
2642             withdrawnDividends[user] = withdrawnDividends[user].sub(
2643                 _withdrawableDividend
2644             );
2645             return 0;
2646         } else {
2647             emit DividendWithdrawn(user, _withdrawableDividend);
2648         }
2649
2650         return _withdrawableDividend;
2651     }
2652
2653     return 0;
2654 }
```



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DESCRIPTION	<p>IUniswapV2Router01.addLiquidity() (#L661-662) has two parameters names that are too similar.</p> <p>[DividendPayingToken._withdrawDividendOfUser()._withdrawableDividend] (#L909) is too similar with [ShibConnectDividendTracker.getAccount().withdrawableDividends] (#L2339).</p> <p>[ShibConnectDividendTracker._reinvestDividendOfUser().withdrawableDividend] (#L2542) is too similar with [ShibConnectDividendTracker.getAccount().withdrawableDividends] (#L2339).</p> <p>[ShibConnectDividendTracker._withdrawDividendOfUser()._withdrawableDividend] (#L2599) is too similar with [ShibConnectDividendTracker.getAccount().withdrawableDividends] (#L2339).</p>
RECOMMENDATIONS	<p>Based on our analysis, the IUniswapV2Router01 smart contract is a direct fork from Uniswap and it is just an interface. Although their names are too similar, it's still okay to leave them be for the purpose of following the standard parameter declaration that is widely used as reference.</p> <p>However, for DividendPayingToken and ShibConnectDividendTracker smart contract, it is recommended for project owner to make the changes to the name and prevent variables from having similar names.</p>
STATUS	N/A



Revoluzion Audit

TMD — Too many digits

SEVERITY	Informational — Medium
LOCATION(S)	ShibConnect.sol#L1032-1034, 1080, 1216, 1364, 1832, 1838

```
1032 uint256 public maxSellTransactionAmount = 1000000000 * (10**9); // No max sell
1033 uint256 public swapTokensAtAmount = 200000 * (10**9);
1034 uint256 public swapTokensAtAmountMax = 5000000 * (10**9);
```

```
1080 uint256 public gasForProcessing = 300000;
```

```
1362
1363 function updateGasForProcessing(uint256 newValue) public onlyOwner {
1364     require(newValue >= 200000 && newValue <= 500000, "new gas value must be between 200000 and 500000");
1365     emit GasForProcessingUpdated(newValue, gasForProcessing);
1366     gasForProcessing = newValue;
1367 }
1368
```

```
1830
1831 function setSwapTokensAmount(uint256 amount) public onlyOwner {
1832     require(amount <= 2000000, "cannot set swap amount greater than .2%");
1833     swapTokensAtAmount = amount;
1834 }
1835
1836 function setSwapTokensAmountMax(uint256 amount) public onlyOwner {
1837     require(amount > swapTokensAtAmount, "Max amount must be greater than minimum");
1838     require(amount <= 2000000, "cannot set swap amount greater than .2%");
1839     swapTokensAtAmountMax = amount;
1840 }
1841
```



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```
1168
1169     constructor() ERC20("ShibConnect", "ShibConnect") {
1170         dividendTracker = new ShibConnectDividendTracker(payable(this));
1171
1172         liquidityWallet = owner();
1173
1174         uniswapV2Router = IUniswapV2Router02(
1175             // 0x10ED43C718714eb63d5aA57B78B54704E256024E //mainnet
1176             0xD99D1c33F9fC3444f8101754aBC46c52416550D1 //testnet
1177         );
1178
1179         // Create a uniswap pair for this new token
1180         uniswapV2Pair = IUniswapV2Factory(uniswapV2Router.factory()).createPair(
1181             address(this),
1182             uniswapV2Router.WETH()
1183         );
1184
1185         _setAutomatedMarketMakerPair(uniswapV2Pair, true);
1186
1187         // exclude from receiving dividends
1188         dividendTracker.excludeFromDividends(address(dividendTracker));
1189         dividendTracker.excludeFromDividends(address(this));
1190         dividendTracker.excludeFromDividends(
1191             0x0000000000000000000000000000000000000000dEaD
1192         );
1193         dividendTracker.excludedFromDividends(address(0));
1194         dividendTracker.excludeFromDividends(owner());
1195         dividendTracker.excludeFromDividends(address(uniswapV2Router));
1196
1197         // exclude from paying fees or having max transaction amount
1198         _isExcludedFromFees[liquidityWallet] = true;
1199         _isExcludedFromFees[address(this)] = true;
1200         _isExcludedFromFees[owner()] = true;
1201         _isExcludedFromFees[address(dividendTracker)] = true;
1202
1203         referralTreeFees[0] = 300; // 3% to primary referrer
1204         referralTreeFees[1] = 60; // 0.6% to secondary referrer
1205         referralTreeFees[2] = 40; // 0.4% to tertiary referrer
1206         referralTreeFeesLength = 3;
1207
1208         calculateReferralFee();
1209
1210         canTransferBeforeTradingIsEnabled[owner()] = true;
1211         /*
1212             _mint is an internal function in ERC20.sol that is only called here,
1213             and CANNOT be called ever again
1214         */
1215
1216         _mint(owner(), 100000000 * (10**9));
1217     }
1218 }
```

DESCRIPTION	[ShibConnect.maxSellTransactionAmount] (#L1032) uses literals with too many digits.
	[ShibConnect.swapTokensAtAmount] (#L1033) uses literals with too many digits.
	[ShibConnect.swapTokensAtAmountMax] (#L1034) uses literals with too many digits.
	[ShibConnect.gasForProcessing] (#L1080) uses literals with too many digits.



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	<p>[ShibConnect.constructor()] (#L1216) uses literals with too many digits.</p> <p>[ShibConnect.updateGasForProcessing()] (#L1364) uses literals with too many digits.</p> <p>[ShibConnect.setSwapTokensAmount()] (#L1832) uses literals with too many digits.</p> <p>[ShibConnect.setSwapTokensAmount()] (#L1838) uses literals with too many digits.</p>
RECOMMENDATIONS	Literals that use too many digits are usually difficult to read and review, which makes them likely to be used incorrectly. Project creator can try to use ether suffix.
STATUS	N/A



Revoluzion Audit

US — Unused state variable

SEVERITY	Informational — Minor
LOCATION(S)	ShibConnect.sol#L603, 1577-1578
<pre>603 int256 private constant MAX_INT256 = ~(int256(1) << 255);</pre>	
<pre>1577 uint256 private totalBuyFeesActual; 1578 uint256 private totalSellFeesActual;</pre>	
DESCRIPTION	[SafeMathInt.MAX_INT256] (#L603) is never used. [ShibConnect.totalBuyFeesActual] (#L1577) is never used. [ShibConnect.totalSellFeesActual] (#L1578) is never used.
RECOMMENDATIONS	Based on our analysis, project creator can either create a function to call the value for preview or completely remove it from the code. Project creator can also opt to keep them as it doesn't give any issue other than increasing the gas fee when deploying the smart contract.
STATUS	N/A



Revoluzion Audit

CS — State variable that can be declared as constant

SEVERITY	Informational — Minor
LOCATION(S)	ShibConnect.sol#L1032, 1577-1578
<pre>1032 uint256 public maxSellTransactionAmount = 1000000000 * (10**9); // No max sell</pre>	
<pre>1577 uint256 private totalBuyFeesActual; 1578 uint256 private totalSellFeesActual;</pre>	
DESCRIPTION	<p>[ShibConnect.maxSellTransactionAmount] (#L1032) should be constant.</p> <p>[ShibConnect.totalBuyFeesActual] (#L1577) should be constant.</p> <p>[ShibConnect.totalSellFeesActual] (#L1578) should be constant.</p>
RECOMMENDATIONS	Based on our analysis, these variables should be declared as constant since they don't change throughout smart contract.
STATUS	N/A



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Disclaimer

This report only shows findings based on our limited project analysis according to the good industry practice from the date of this report, in relation to cybersecurity vulnerabilities and issues in the framework and algorithms based on smart contracts, overall online presence and team transparency details of which are set out in this report. To get a full view of our analysis, **it is important for you to read the full report**. Under no circumstances did Revoluzion Audit receive a payment to manipulate those results or change the awarding badge that we will be adding in our website. **Our team provides no guarantees against the sale of team tokens or the removal of liquidity by the project** audited in this document.

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