



Elancing
Smart Contract
Audit Report

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AUDITED DETAILS

Audited Project

Project name	Token ticker	Blockchain
Elancing	ELC	BSC

Addresses

Contract address	0x0FBb8C9f52C354eE8072Fdf314F4cFf6dEBB31c8
Contract deployer address	0xeFc979c8F20bED441DA0206C26AC6cE40144C2aB

Project Website

<https://elancing.net/>

Codebase

<https://bscscan.com/address/0x0FBb8C9f52C354eE8072Fdf314F4cFf6dEBB31c8#code>

SUMMARY

Elancing is a revolutionary decentralized marketplace for freelance & outsourcing services. Uses advanced PoW technology for low commission. \$ELC holders receive 2% rewards in ETH & 2% BNB dividends from service fees! Excellent audit score | Automated buyback & burn mechanism for price support & accumulation | Beta product ready for use & exploration | Huge marketing & Cex Listings offers!

Contract Summary

Documentation Quality

This project has a standard of documentation.

- Technical description provided.

Code Quality

The quality of the code in this project is up to standard.

- The official Solidity style guide is followed.

Test Scope

Project test coverage is 100% (Via Codebase).

Audit Findings Summary

Issues Found

- SWC-101 | Arithmetic operation issues discovered on lines 55, 67, 77, 78, 89, 101, 110, 114, 122, 125, 130, 199, 569, 587, 629, 689, 840, 850, 854, 948, 977, 978, 1060, 1113, 1115, 1131, 1134, 1139, 1144, 1149, 1151, 1158, 1183, 1191, 1193, 1195, 1202, 1204, 1269, and 1273.
- SWC-101 | Compiler-rewritable " - 1" discovered on lines 199 and 1269.
- SWC-110 | Out of bounds array access issues discovered on lines 172, 200, 205, 846, 1121, 1122, 1228, 1229, 1249, 1250, 1266, 1267, and 1269.
- SWC-115 | Use of "Tx.Origin" as a part of authorization Control on lines 1218 and 1345.

CONCLUSION

We have audited the Elancing project which has released on January 2023 to discover issues and identify potential security vulnerabilities in Elancing Project. This process is used to find technical issues and security loopholes that find some common issues in the code.

The security audit report produced satisfactory results with low-risk issues.

Most issues found were low severity and any critical issue such as High Vulnerability was not found. Except for all other issues that were of negligible importance and mostly referred to coding standards and inefficiencies such as arithmetic operation issues, the use of "tx.origin" as a part of authorization control and out of bounds array access which the index access expression can cause an exception in case of use of an invalid array index value.

AUDIT RESULT

Article	Category	Description	Result
Default Visibility	SWC-100 SWC-108	Functions and state variables visibility should be set explicitly. Visibility levels should be specified consciously.	PASS
Integer Overflow and Underflow	SWC-101	If unchecked math is used, all math operations should be safe from overflows and underflows.	ISSUE FOUND
Outdated Compiler Version	SWC-102	It is recommended to use a recent version of the Solidity compiler.	PASS
Floating Pragma	SWC-103	Contracts should be deployed with the same compiler version and flags that they have been tested thoroughly.	PASS
Unchecked Call Return Value	SWC-104	The return value of a message call should be checked.	PASS
SELFDESTRUCT Instruction	SWC-106	The contract should not be self-destructible while it has funds belonging to users.	PASS
Check-Effect Interaction	SWC-107	Check-Effect-Interaction pattern should be followed if the code performs ANY external call.	PASS
Assert Violation	SWC-110	Properly functioning code should never reach a failing assert statement.	ISSUE FOUND
Deprecated Solidity Functions	SWC-111	Deprecated built-in functions should never be used.	PASS
Delegate call to Untrusted Callerr	SWC-112	Delegatecalls should only be allowed to trusted addresses.	PASS
DoS (Denial of Service)	SWC-113 SWC-128	Execution of the code should never be blocked by a specific contract state unless required.	PASS
Race Conditions	SWC-114	Race Conditions and Transactions Order Dependency should not be possible.	PASS

Authorization through tx.origin	SWC-115	tx.origin should not be used for authorization.	ISSUE FOUND
Block values as a proxy for time	SWC-116	Block numbers should not be used for time calculations.	PASS
Signature Unique Id	SWC-117 SWC-121 SWC-122	Signed messages should always have a unique id. A transaction hash should not be used as a unique id.	PASS
Shadowing State Variable	SWC-119	State variables should not be shadowed.	PASS
Weak Sources of Randomness	SWC-120	Random values should never be generated from Chain Attributes or be predictable.	PASS
Incorrect Inheritance Order	SWC-125	When inheriting multiple contracts, especially if they have identical functions, a developer should carefully specify inheritance in the correct order. The rule of thumb is to inherit contracts from more /general/ to more /specific/.	PASS

SMART CONTRACT ANALYSIS

Started	Sat Jan 21 2023 23:12:46 GMT+0000 (Coordinated Universal Time)
Finished	Sun Jan 22 2023 02:20:50 GMT+0000 (Coordinated Universal Time)
Mode	Standard
Main Source File	ELC.sol

Detected Issues

ID	Title	Severity	Status
SWC-101	ARITHMETIC OPERATION "+" DISCOVERED	low	acknowledged
SWC-101	ARITHMETIC OPERATION "-" DISCOVERED	low	acknowledged
SWC-101	ARITHMETIC OPERATION "*" DISCOVERED	low	acknowledged
SWC-101	ARITHMETIC OPERATION "/" DISCOVERED	low	acknowledged
SWC-101	ARITHMETIC OPERATION "/" DISCOVERED	low	acknowledged
SWC-101	ARITHMETIC OPERATION "%" DISCOVERED	low	acknowledged
SWC-101	ARITHMETIC OPERATION "*" DISCOVERED	low	acknowledged
SWC-101	ARITHMETIC OPERATION "/" DISCOVERED	low	acknowledged
SWC-101	ARITHMETIC OPERATION "/" DISCOVERED	low	acknowledged
SWC-101	ARITHMETIC OPERATION "-" DISCOVERED	low	acknowledged
SWC-101	ARITHMETIC OPERATION "+" DISCOVERED	low	acknowledged
SWC-101	ARITHMETIC OPERATION "-" DISCOVERED	low	acknowledged
SWC-101	ARITHMETIC OPERATION "**" DISCOVERED	low	acknowledged
SWC-101	ARITHMETIC OPERATION "/" DISCOVERED	low	acknowledged

SWC-101	ARITHMETIC OPERATION "/" DISCOVERED	low	acknowledged
SWC-101	ARITHMETIC OPERATION "*" DISCOVERED	low	acknowledged
SWC-101	ARITHMETIC OPERATION "++" DISCOVERED	low	acknowledged
SWC-101	ARITHMETIC OPERATION "++" DISCOVERED	low	acknowledged
SWC-101	ARITHMETIC OPERATION "++" DISCOVERED	low	acknowledged
SWC-101	ARITHMETIC OPERATION "+" DISCOVERED	low	acknowledged
SWC-101	ARITHMETIC OPERATION "*" DISCOVERED	low	acknowledged
SWC-101	ARITHMETIC OPERATION "/" DISCOVERED	low	acknowledged
SWC-101	ARITHMETIC OPERATION "+" DISCOVERED	low	acknowledged
SWC-101	ARITHMETIC OPERATION "*" DISCOVERED	low	acknowledged
SWC-101	ARITHMETIC OPERATION "+" DISCOVERED	low	acknowledged
SWC-101	ARITHMETIC OPERATION "-" DISCOVERED	low	acknowledged
SWC-101	ARITHMETIC OPERATION "/" DISCOVERED	low	acknowledged
SWC-101	ARITHMETIC OPERATION "/" DISCOVERED	low	acknowledged
SWC-101	ARITHMETIC OPERATION "/" DISCOVERED	low	acknowledged
SWC-101	ARITHMETIC OPERATION "+=" DISCOVERED	low	acknowledged
SWC-101	ARITHMETIC OPERATION "/" DISCOVERED	low	acknowledged
SWC-101	ARITHMETIC OPERATION "*" DISCOVERED	low	acknowledged
SWC-101	ARITHMETIC OPERATION "*" DISCOVERED	low	acknowledged
SWC-101	ARITHMETIC OPERATION "-" DISCOVERED	low	acknowledged
SWC-101	ARITHMETIC OPERATION "*" DISCOVERED	low	acknowledged
SWC-101	ARITHMETIC OPERATION "/" DISCOVERED	low	acknowledged

SWC-101 | ARITHMETIC OPERATION "+" DISCOVERED

LINE 55

low SEVERITY

This plugin produces issues to support false positive discovery within Mythril.

Source File

- ELC.sol

Locations

```
54 function add(uint256 a, uint256 b) internal pure returns (uint256) {
55     uint256 c = a + b;
56     require(c >= a, "SafeMath: addition overflow");
57
58     return c;
```

SWC-101 | ARITHMETIC OPERATION "-" DISCOVERED

LINE 67

low SEVERITY

This plugin produces issues to support false positive discovery within Mythril.

Source File

- ELC.sol

Locations

```
66  require(b <= a, errorMessage);
67  uint256 c = a - b;
68
69  return c;
70  }
```

SWC-101 | ARITHMETIC OPERATION "*" DISCOVERED

LINE 77

low SEVERITY

This plugin produces issues to support false positive discovery within Mythril.

Source File

- ELC.sol

Locations

```
76
77  uint256 c = a * b;
78  require(c / a == b, "SafeMath: multiplication overflow");
79
80  return c;
```

SWC-101 | ARITHMETIC OPERATION "/" DISCOVERED

LINE 78

low SEVERITY

This plugin produces issues to support false positive discovery within Mythril.

Source File

- ELC.sol

Locations

```
77  uint256 c = a * b;  
78  require(c / a == b, "SafeMath: multiplication overflow");  
79  
80  return c;  
81  }
```

SWC-101 | ARITHMETIC OPERATION "/" DISCOVERED

LINE 89

low SEVERITY

This plugin produces issues to support false positive discovery within Mythril.

Source File

- ELC.sol

Locations

```
88  require(b > 0, errorMessage);
89  uint256 c = a / b;
90  // assert(a == b * c + a % b); // There is no case in which this doesn't hold
91
92  return c;
```

SWC-101 | ARITHMETIC OPERATION "%" DISCOVERED

LINE 101

low SEVERITY

This plugin produces issues to support false positive discovery within Mythril.

Source File

- ELC.sol

Locations

```
100   require(b != 0, errorMessage);
101   return a % b;
102   }
103   }
104
```


SWC-101 | ARITHMETIC OPERATION "*" DISCOVERED

LINE 110

low SEVERITY

This plugin produces issues to support false positive discovery within Mythril.

Source File

- ELC.sol

Locations

```
109 function mul(int256 a, int256 b) internal pure returns (int256) {
110     int256 c = a * b;
111
112     // Detect overflow when multiplying MIN_INT256 with -1
113     require(c != MIN_INT256 || (a & MIN_INT256) != (b & MIN_INT256));
```

SWC-101 | ARITHMETIC OPERATION "/" DISCOVERED

LINE 114

low SEVERITY

This plugin produces issues to support false positive discovery within Mythril.

Source File

- ELC.sol

Locations

```
113   require(c != MIN_INT256 || (a & MIN_INT256) != (b & MIN_INT256));
114   require((b == 0) || (c / b == a));
115   return c;
116   }
117   function div(int256 a, int256 b) internal pure returns (int256) {
```

SWC-101 | ARITHMETIC OPERATION "/" DISCOVERED

LINE 122

low SEVERITY

This plugin produces issues to support false positive discovery within Mythril.

Source File

- ELC.sol

Locations

```
121 // Solidity already throws when dividing by 0.  
122 return a / b;  
123 }  
124 function sub(int256 a, int256 b) internal pure returns (int256) {  
125     int256 c = a - b;
```

SWC-101 | ARITHMETIC OPERATION "-" DISCOVERED

LINE 125

low SEVERITY

This plugin produces issues to support false positive discovery within Mythril.

Source File

- ELC.sol

Locations

```
124 function sub(int256 a, int256 b) internal pure returns (int256) {
125     int256 c = a - b;
126     require((b >= 0 && c <= a) || (b < 0 && c > a));
127     return c;
128 }
```

SWC-101 | ARITHMETIC OPERATION "+" DISCOVERED

LINE 130

low SEVERITY

This plugin produces issues to support false positive discovery within Mythril.

Source File

- ELC.sol

Locations

```
129 function add(int256 a, int256 b) internal pure returns (int256) {
130     int256 c = a + b;
131     require((b >= 0 && c >= a) || (b < 0 && c < a));
132     return c;
133 }
```

SWC-101 | ARITHMETIC OPERATION "-" DISCOVERED

LINE 199

low SEVERITY

This plugin produces issues to support false positive discovery within Mythril.

Source File

- ELC.sol

Locations

```
198  uint index = map.indexOf[key];
199  uint lastIndex = map.keys.length - 1;
200  address lastKey = map.keys[lastIndex];
201
202  map.indexOf[lastKey] = index;
```

SWC-101 | ARITHMETIC OPERATION "**" DISCOVERED

LINE 569

low SEVERITY

This plugin produces issues to support false positive discovery within Mythril.

Source File

- ELC.sol

Locations

```
568
569 uint256 constant internal magnitude = 2**128;
570 uint256 internal magnifiedDividendPerShare;
571 uint256 public totalDividendsDistributed;
572
```

SWC-101 | ARITHMETIC OPERATION "/" DISCOVERED

LINE 587

low SEVERITY

This plugin produces issues to support false positive discovery within Mythril.

Source File

- ELC.sol

Locations

```
586 magnifiedDividendPerShare = magnifiedDividendPerShare.add(  
587 (amount).mul(magnitude) / totalSupply()  
588 );  
589 emit DividendsDistributed(msg.sender, amount);  
590
```


SWC-101 | ARITHMETIC OPERATION "/" DISCOVERED

LINE 629

low SEVERITY

This plugin produces issues to support false positive discovery within Mythril.

Source File

- ELC.sol

Locations

```
628     function accumulativeDividendOf(address _owner) public view override
returns(uint256) {
629     return magnifiedDividendPerShare.mul(balanceOf(_owner)).toInt256Safe()
630     .add(magnifiedDividendCorrections[_owner]).toUint256Safe() / magnitude;
631 }
632
```

SWC-101 | ARITHMETIC OPERATION "*" DISCOVERED

LINE 689

low SEVERITY

This plugin produces issues to support false positive discovery within Mythril.

Source File

- ELC.sol

Locations

```
688   claimWait = 3600;
689   minimumTokenBalanceForDividends = minBalance * 10 ** 9;
690   }
691
692   function _transfer(address, address, uint256) internal pure override {
```

SWC-101 | ARITHMETIC OPERATION "++" DISCOVERED

LINE 840

low SEVERITY

This plugin produces issues to support false positive discovery within Mythril.

Source File

- ELC.sol

Locations

```
839 while(gasUsed < gas && iterations < numberOfTokenHolders) {  
840   _lastProcessedIndex++;  
841  
842   if(_lastProcessedIndex >= tokenHoldersMap.keys.length) {  
843     _lastProcessedIndex = 0;
```

SWC-101 | ARITHMETIC OPERATION "++" DISCOVERED

LINE 850

low SEVERITY

This plugin produces issues to support false positive discovery within Mythril.

Source File

- ELC.sol

Locations

```
849     if(processAccount(payable(account), true)) {  
850         claims++;  
851     }  
852 }  
853
```

SWC-101 | ARITHMETIC OPERATION "++" DISCOVERED

LINE 854

low SEVERITY

This plugin produces issues to support false positive discovery within Mythril.

Source File

- ELC.sol

Locations

```
853
854  iterations++;
855
856  uint256 newGasLeft = gasleft();
857
```

SWC-101 | ARITHMETIC OPERATION "+" DISCOVERED

LINE 948

low SEVERITY

This plugin produces issues to support false positive discovery within Mythril.

Source File

- ELC.sol

Locations

```
947
948 totalFee          = marketingFee + rewardsFee + teamFee + validatorFee + buyBackFee;
949
950 marketingWallet = 0x862cD7bC48eBaB97436eE29953c62A8aaD2fBCDC;
951 teamWallet = 0xffa1cF4835b3D41A02b7e4b565186ece8eF55Be8;
```

SWC-101 | ARITHMETIC OPERATION "*" DISCOVERED

LINE 977

low SEVERITY

This plugin produces issues to support false positive discovery within Mythril.

Source File

- ELC.sol

Locations

```
976
977  _mint(owner(), 1_000_000_000 * (10 ** 9));
978  swapTokensAtAmount = totalSupply() / 5000;
979
980  priceImpactPercent = 10;
```

SWC-101 | ARITHMETIC OPERATION "/" DISCOVERED

LINE 978

low SEVERITY

This plugin produces issues to support false positive discovery within Mythril.

Source File

- ELC.sol

Locations

```
977  _mint(owner(), 1_000_000_000 * (10 ** 9));
978  swapTokensAtAmount = totalSupply() / 5000;
979
980  priceImpactPercent = 10;
981  buybackThreshold = 1_000_000;
```


SWC-101 | ARITHMETIC OPERATION "+" DISCOVERED

LINE 1060

low SEVERITY

This plugin produces issues to support false positive discovery within Mythril.

Source File

- ELC.sol

Locations

```
1059
1060 totalFee = marketingFee + rewardsFee + teamFee + validatorFee + buyBackFee;
1061
1062 require(totalFee <= 10, "Buy fee cannot be more than 10%");
1063 }
```

SWC-101 | ARITHMETIC OPERATION "*" DISCOVERED

LINE 1113

low SEVERITY

This plugin produces issues to support false positive discovery within Mythril.

Source File

- ELC.sol

Locations

```
1112
1113     uint256 price = getPriceOfToken(1 * 10 ** decimals());
1114
1115     uint256 bnbShare = marketingFee + rewardsFee + teamFee + validatorFee +
buyBackFee;
1116
```

SWC-101 | ARITHMETIC OPERATION "+" DISCOVERED

LINE 1115

low SEVERITY

This plugin produces issues to support false positive discovery within Mythril.

Source File

- ELC.sol

Locations

```
1114
1115     uint256 bnbShare = marketingFee + rewardsFee + teamFee + validatorFee +
buyBackFee;
1116
1117     if(contractTokenBalance > 0 && bnbShare > 0) {
1118         uint256 initialBalance = address(this).balance;
```

SWC-101 | ARITHMETIC OPERATION "-" DISCOVERED

LINE 1131

low SEVERITY

This plugin produces issues to support false positive discovery within Mythril.

Source File

- ELC.sol

Locations

```
1130
1131  uint256 newBalance = address(this).balance - initialBalance;
1132
1133  if(marketingFee > 0) {
1134  uint256 marketingBNB = newBalance * marketingFee / bnbShare;
```

SWC-101 | ARITHMETIC OPERATION "/" DISCOVERED

LINE 1134

low SEVERITY

This plugin produces issues to support false positive discovery within Mythril.

Source File

- ELC.sol

Locations

```
1133     if(marketingFee > 0) {  
1134         uint256 marketingBNB = newBalance * marketingFee / bnbShare;  
1135         sendBNB payable(marketingWallet), marketingBNB);  
1136     }  
1137
```

SWC-101 | ARITHMETIC OPERATION "/" DISCOVERED

LINE 1139

low SEVERITY

This plugin produces issues to support false positive discovery within Mythril.

Source File

- ELC.sol

Locations

```
1138     if(teamFee > 0) {  
1139         uint256 teamBNB = newBalance * teamFee / bnbShare;  
1140         sendBNB(payable(teamWallet), teamBNB);  
1141     }  
1142
```

SWC-101 | ARITHMETIC OPERATION "/" DISCOVERED

LINE 1144

low SEVERITY

This plugin produces issues to support false positive discovery within Mythril.

Source File

- ELC.sol

Locations

```
1143     if validatorFee > 0 {
1144         uint256 validatorBNB = newBalance * validatorFee / bnbShare;
1145         sendBNB payable (validatorWallet), validatorBNB;
1146     }
1147
```

SWC-101 | ARITHMETIC OPERATION "+=" DISCOVERED

LINE 1149

low SEVERITY

This plugin produces issues to support false positive discovery within Mythril.

Source File

- ELC.sol

Locations

```
1148     if(buyBackFee > 0) {
1149         buybackBNB += newBalance * buyBackFee / bnbShare;
1150
1151         if (buybackBNB > buybackThreshold && buybackEnabled && (price <= allTimeHigh *
(100 - priceImpactPercent) / 100)){
1152             buyBackTokens(buybackBNB);
```


SWC-101 | ARITHMETIC OPERATION "/" DISCOVERED

LINE 1151

low SEVERITY

This plugin produces issues to support false positive discovery within Mythril.

Source File

- ELC.sol

Locations

```
1150
1151   if (buybackBNB > buybackThreshold && buybackEnabled && (price <= allTimeHigh *
(100 - priceImpactPercent) / 100)){
1152   buyBackTokens(buybackBNB);
1153   buybackBNB = 0;
1154   }
```

SWC-101 | ARITHMETIC OPERATION "*" DISCOVERED

LINE 1158

low SEVERITY

This plugin produces issues to support false positive discovery within Mythril.

Source File

- ELC.sol

Locations

```
1157     if(rewardsFee > 0) {  
1158         uint256 rewardBNB = newBalance * rewardsFee / bnbShare;  
1159         swapAndSendDividends(rewardBNB);  
1160     }  
1161 }
```

SWC-101 | ARITHMETIC OPERATION "*" DISCOVERED

LINE 1183

low SEVERITY

This plugin produces issues to support false positive discovery within Mythril.

Source File

- ELC.sol

Locations

```
1182
1183  uint256 price = getPriceOfToken(1 * 10 ** decimals());
1184
1185  if (price >= allTimeHigh) {
1186    allTimeHigh = price;
```

SWC-101 | ARITHMETIC OPERATION "-" DISCOVERED

LINE 1191

low SEVERITY

This plugin produces issues to support false positive discovery within Mythril.

Source File

- ELC.sol

Locations

```
1190  _totalFees = totalFee;
1191  require (block.timestamp - traded[from] >= cooldown, "Wait before selling.
Cooldown enabled.");
1192
1193  uint256 price = getPriceOfToken(1 * 10 ** decimals());
1194
```

SWC-101 | ARITHMETIC OPERATION "*" DISCOVERED

LINE 1193

low SEVERITY

This plugin produces issues to support false positive discovery within Mythril.

Source File

- ELC.sol

Locations

```
1192
1193     uint256 price = getPriceOfToken(1 * 10 ** decimals());
1194
1195     if (buybackBNB > buybackThreshold && buybackEnabled && (price <= allTimeHigh *
(100 - priceImpactPercent) / 100)){
1196         buyBackTokens(buybackBNB);
```

SWC-101 | ARITHMETIC OPERATION "/" DISCOVERED

LINE 1195

low SEVERITY

This plugin produces issues to support false positive discovery within Mythril.

Source File

- ELC.sol

Locations

```
1194
1195   if (buybackBNB > buybackThreshold && buybackEnabled && (price <= allTimeHigh *
(100 - priceImpactPercent) / 100)){
1196   buyBackTokens(buybackBNB);
1197   buybackBNB = 0;
1198   }
```

SWC-101 | ARITHMETIC OPERATION "/" DISCOVERED

LINE 1202

low SEVERITY

This plugin produces issues to support false positive discovery within Mythril.

Source File

- ELC.sol

Locations

```
1201     }  
1202     uint256 fees = amount * _totalFees / 100;  
1203  
1204     amount = amount - fees;  
1205
```

SWC-101 | ARITHMETIC OPERATION "-" DISCOVERED

LINE 1204

low SEVERITY

This plugin produces issues to support false positive discovery within Mythril.

Source File

- ELC.sol

Locations

```
1203
1204  amount = amount - fees;
1205
1206  super._transfer(from, address(this), fees);
1207  }
```


SWC-101 | ARITHMETIC OPERATION "-" DISCOVERED

LINE 1269

low SEVERITY

This plugin produces issues to support false positive discovery within Mythril.

Source File

- ELC.sol

Locations

```
1268
1269     price = (uniswapV2Router.getAmountsOut(amount, path))[path.length - 1];
1270     }
1271
1272     function setSwapTokensAtAmount(uint256 newAmount) external onlyOwner{
```

SWC-101 | ARITHMETIC OPERATION "/" DISCOVERED

LINE 1273

low SEVERITY

This plugin produces issues to support false positive discovery within Mythril.

Source File

- ELC.sol

Locations

```
1272     function setSwapTokensAtAmount(uint256 newAmount) external onlyOwner{
1273         require(newAmount > totalSupply() / 100_000, "SwapTokensAtAmount must be greater
than 0.001% of total supply");
1274         swapTokensAtAmount = newAmount;
1275     }
1276
```

SWC-101 | COMPILER-REWRITABLE "<UINT> - 1" DISCOVERED

LINE 199

low SEVERITY

This plugin produces issues to support false positive discovery within Mythril.

Source File

- ELC.sol

Locations

```
198 uint index = map.indexOf[key];
199 uint lastIndex = map.keys.length - 1;
200 address lastKey = map.keys[lastIndex];
201
202 map.indexOf[lastKey] = index;
```

SWC-101 | COMPILER-REWRITABLE "<UINT> - 1" DISCOVERED

LINE 1269

low SEVERITY

This plugin produces issues to support false positive discovery within Mythril.

Source File

- ELC.sol

Locations

```
1268
1269     price = (uniswapV2Router.getAmountsOut(amount, path))[path.length - 1];
1270     }
1271
1272     function setSwapTokensAtAmount(uint256 newAmount) external onlyOwner{
```

SWC-115 | USE OF "TX.ORIGIN" AS A PART OF AUTHORIZATION CONTROL.

LINE 1218

low SEVERITY

Using "tx.origin" as a security control can lead to authorization bypass vulnerabilities. Consider using "msg.sender" unless you really know what you are doing.

Source File

- ELC.sol

Locations

```
1217 try dividendTracker.process(gas) returns (uint256 iterations, uint256 claims,
uint256 lastProcessedIndex) {
1218 emit ProcessedDividendTracker(iterations, claims, lastProcessedIndex, true, gas,
tx.origin);
1219 }
1220 catch {
1221
```

SWC-115 | USE OF "TX.ORIGIN" AS A PART OF AUTHORIZATION CONTROL.

LINE 1345

low SEVERITY

Using "tx.origin" as a security control can lead to authorization bypass vulnerabilities. Consider using "msg.sender" unless you really know what you are doing.

Source File

- ELC.sol

Locations

```
1344 (uint256 iterations, uint256 claims, uint256 lastProcessedIndex) =
dividendTracker.process(gas);
1345 emit ProcessedDividendTracker(iterations, claims, lastProcessedIndex, false, gas,
tx.origin);
1346 }
1347
1348 function claim() external {
```

SWC-110 | OUT OF BOUNDS ARRAY ACCESS

LINE 172

low SEVERITY

The index access expression can cause an exception in case of use of invalid array index value.

Source File

- ELC.sol

Locations

```
171 function getKeyAtIndex(Map storage map, uint index) public view returns (address) {  
172     return map.keys[index];  
173 }  
174  
175 function size(Map storage map) public view returns (uint) {
```

SWC-110 | OUT OF BOUNDS ARRAY ACCESS

LINE 200

low SEVERITY

The index access expression can cause an exception in case of use of invalid array index value.

Source File

- ELC.sol

Locations

```
199  uint lastIndex = map.keys.length - 1;
200  address lastKey = map.keys[lastIndex];
201
202  map.indexOf[lastKey] = index;
203  delete map.indexOf[key];
```


SWC-110 | OUT OF BOUNDS ARRAY ACCESS

LINE 205

low SEVERITY

The index access expression can cause an exception in case of use of invalid array index value.

Source File

- ELC.sol

Locations

```
204
205  map.keys[index] = lastKey;
206  map.keys.pop();
207  }
208  }
```

SWC-110 | OUT OF BOUNDS ARRAY ACCESS

LINE 846

low SEVERITY

The index access expression can cause an exception in case of use of invalid array index value.

Source File

- ELC.sol

Locations

```
845
846 address account = tokenHoldersMap.keys[_lastProcessedIndex];
847
848 if(canAutoClaim(lastClaimTimes[account])) {
849     if(processAccount payable(account), true) {
```

SWC-110 | OUT OF BOUNDS ARRAY ACCESS

LINE 1121

low SEVERITY

The index access expression can cause an exception in case of use of invalid array index value.

Source File

- ELC.sol

Locations

```
1120 address[] memory path = new address[](2);
1121 path[0] = address(this);
1122 path[1] = uniswapV2Router.WETH();
1123
1124 uniswapV2Router.swapExactTokensForETHSupportingFeeOnTransferTokens(
```

SWC-110 | OUT OF BOUNDS ARRAY ACCESS

LINE 1122

low SEVERITY

The index access expression can cause an exception in case of use of invalid array index value.

Source File

- ELC.sol

Locations

```
1121 path[0] = address(this);
1122 path[1] = uniswapV2Router.WETH();
1123
1124 uniswapV2Router.swapExactTokensForETHSupportingFeeOnTransferTokens(
1125 contractTokenBalance,
```

SWC-110 | OUT OF BOUNDS ARRAY ACCESS

LINE 1228

low SEVERITY

The index access expression can cause an exception in case of use of invalid array index value.

Source File

- ELC.sol

Locations

```
1227     address[] memory path = new address[](2);
1228     path[0] = uniswapV2Router.WETH();
1229     path[1] = rewardToken;
1230
1231     uniswapV2Router.swapExactETHForTokensSupportingFeeOnTransferTokens{value: amount}(  

```

SWC-110 | OUT OF BOUNDS ARRAY ACCESS

LINE 1229

low SEVERITY

The index access expression can cause an exception in case of use of invalid array index value.

Source File

- ELC.sol

Locations

```
1228 path[0] = uniswapV2Router.WETH();
1229 path[1] = rewardToken;
1230
1231 uniswapV2Router.swapExactETHForTokensSupportingFeeOnTransferTokens{value: amount}(
1232 0,
```

SWC-110 | OUT OF BOUNDS ARRAY ACCESS

LINE 1249

low SEVERITY

The index access expression can cause an exception in case of use of invalid array index value.

Source File

- ELC.sol

Locations

```
1248     address[] memory path = new address[](2);
1249     path[0] = uniswapV2Router.WETH();
1250     path[1] = address(this);
1251
1252     uniswapV2Router.swapExactETHForTokensSupportingFeeOnTransferTokens{value:
    _amount}({
```

SWC-110 | OUT OF BOUNDS ARRAY ACCESS

LINE 1250

low SEVERITY

The index access expression can cause an exception in case of use of invalid array index value.

Source File

- ELC.sol

Locations

```
1249 path[0] = uniswapV2Router.WETH();
1250 path[1] = address(this);
1251
1252 uniswapV2Router.swapExactETHForTokensSupportingFeeOnTransferTokens{value:
_amount}(
1253 0,
```


SWC-110 | OUT OF BOUNDS ARRAY ACCESS

LINE 1266

low SEVERITY

The index access expression can cause an exception in case of use of invalid array index value.

Source File

- ELC.sol

Locations

```
1265     address[] memory path = new address[](2);
1266     path[0] = address(this);
1267     path[1] = uniswapV2Router.WETH();
1268
1269     price = (uniswapV2Router.getAmountsOut(amount, path))[path.length - 1];
```

SWC-110 | OUT OF BOUNDS ARRAY ACCESS

LINE 1267

low SEVERITY

The index access expression can cause an exception in case of use of invalid array index value.

Source File

- ELC.sol

Locations

```
1266 path[0] = address(this);
1267 path[1] = uniswapV2Router.WETH();
1268
1269 price = (uniswapV2Router.getAmountsOut(amount, path))[path.length - 1];
1270 }
```

SWC-110 | OUT OF BOUNDS ARRAY ACCESS

LINE 1269

low SEVERITY

The index access expression can cause an exception in case of use of invalid array index value.

Source File

- ELC.sol

Locations

```
1268
1269     price = (uniswapV2Router.getAmountsOut(amount, path))[path.length - 1];
1270     }
1271
1272     function setSwapTokensAtAmount(uint256 newAmount) external onlyOwner{
```

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