Elancing

Smart Contract Audit Report

SYSFIXED

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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	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	COMPILER-REWRITABLE "<UINT> - 1" DISCOVERED	low	acknowledged
SWC-101	COMPILER-REWRITABLE "<UINT> - 1" DISCOVERED	low	acknowledged
SWC-115	USE OF "TX.ORIGIN" AS A PART OF AUTHORIZATION CONTROL.	low	acknowledged
SWC-115	USE OF "TX.ORIGIN" AS A PART OF AUTHORIZATION CONTROL.	low	acknowledged
SWC-110	OUT OF BOUNDS ARRAY ACCESS	low	acknowledged
SWC-110	OUT OF BOUNDS ARRAY ACCESS	low	acknowledged
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SWC-110	OUT OF BOUNDS ARRAY ACCESS	low	acknowledged
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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    }
```

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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
```

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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{
```

SYSFIXED

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)) {
```

SYSFIXED

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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