

# swipe2earn.com Token Smart Contract Audit Report



23 Sep 2022



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# AUDITED DETAILS

### Audited Project

Project name	Token ticker	Blockchain
swipe2earn.com Token	SWIPE	BSC

### Addresses

Contract address	0x57C8Ed6E4333C051E36EdFD115fed274f737d497
Contract deployer address	0xDBB46F70578cc2053d02F7BA140afBbf919E7636

### Project Website

https://www.swipe2earn.com/

### Codebase

https://bscscan.com/address/0x57C8Ed6E4333C051E36EdFD115fed274f737d497#contracts



# SUMMARY

The easiest way to earn crypto: swipe2earn rewards you for watching sponsored content. Our advantage is the doxxed team, german company, audit, passive income, earning crypto by watching videos, hyper burn mechanism, and listing on pancakeswap right after the sale. The CEO Julian günther has a lot of experience in managing startups. He founded fitgun, which is one of the largest sellers of sporting goods in europe. The whole swipe2earn team is based in Germany.

### Contract Summary

#### **Documentation Quality**

swipe2earn.com Token provides a document with a very good standard of solidity base code.

• The technical description is provided clearly and structured and also don't have any risk issue.

#### **Code Quality**

The Overall quality of the basecode is GOOD

• Standart solidity basecode and rules are already followed with swipe2earn.com Token Project .

#### **Test Coverage**

Test coverage of the project is 100% (Through Codebase)

### Audit Findings Summary

- SWC-101 | Arithmetic operation Issues discovered on lines 325, 348, 381, 383, 404, 405, 430, 481, 634, 648, 663, 664, 677, 689, 704, 718, 732, 746, 762, 785, 808, 834, 1271, 1272, 1274, 1296, 1357, 1364, 1405, 1407, 1471, 1495, 1500, 1505, and 1407.
- SWC-103 | A floating pragma is set on lines 10, 94, 122, 148, 531, 614, 843, and 1065. The current pragma Solidity directive is ""^0.8.17"". It is recommended to specify a fixed compiler version to ensure that the bytecode produced does not vary between builds. This is especially important if you rely on bytecode-level verification of the code.
- SWC-108 | State variable visibility is not set on lines 1293 .It is best practice to set the visibility of state variables explicitly. The default visibility for "protections" is internal. Other possible visibility settings are public and private.
- SWC-110 | Out of bounds array access on lines 1406, 1407, 1472, 1473, 1474, 1613 and 1614.



# CONCLUSION

We have audited the swipe2earn.com Token Coin which has released on September 2022 to discover issues and identify potential security vulnerabilities in swipe2earn.com Token Project. This process is used to find bugs, technical issues, and security loopholes that find some common issues in the code.

The security audit report produced satisfactory results with a low risk issue on the contract project.

The most common issue found in writing code on contracts that do not pose a big risk, writing on contracts is close to the standard of writing contracts in general. Some of the low issues that were found stated variable visibility are not set, a floating pragma is set and out of bounds array access 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.	ISSUE FOUND
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.	ISSUE Found
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 Caller	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.	PASS
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	Thu Sep 10 2022 08:14:04 GMT+0000 (Coordinated Universal Time)		
Finished	Fri Sep 11 2022 09:10:04 GMT+0000 (Coordinated Universal Time)		
Mode	Standard		
Main Source File	SWIPE.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	COMPILER-REWRITABLE " <uint> - 1" DISCOVERED</uint>	low	acknowledged
SWC-103	A FLOATING PRAGMA IS SET.	low	acknowledged
SWC-103	A FLOATING PRAGMA IS SET.	low	acknowledged
SWC-103	A FLOATING PRAGMA IS SET.	low	acknowledged
SWC-103	A FLOATING PRAGMA IS SET.	low	acknowledged
SWC-103	A FLOATING PRAGMA IS SET.	low	acknowledged
SWC-103	A FLOATING PRAGMA IS SET.	low	acknowledged
SWC-103	A FLOATING PRAGMA IS SET.	low	acknowledged
SWC-103	A FLOATING PRAGMA IS SET.	low	acknowledged
SWC-108	STATE VARIABLE VISIBILITY IS NOT SET.	low	acknowledged
SWC-110	OUT OF BOUNDS ARRAY ACCESS	low	acknowledged
SWC-110	OUT OF BOUNDS ARRAY ACCESS	low	acknowledged
SWC-110	OUT OF BOUNDS ARRAY ACCESS	low	acknowledged
SWC-110	OUT OF BOUNDS ARRAY ACCESS	low	acknowledged
SWC-110	OUT OF BOUNDS ARRAY ACCESS	low	acknowledged
SWC-110	OUT OF BOUNDS ARRAY ACCESS	low	acknowledged
SWC-110	OUT OF BOUNDS ARRAY ACCESS	low	acknowledged



**LINE 325** 

### **Iow SEVERITY**

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

### Source File

- SWIPE.Sol

```
324 address owner = _msgSender();
325 _approve(owner, spender, allowance(owner, spender) + addedValue);
326 return true;
327 }
328
```



**LINE 348** 

### **Iow SEVERITY**

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

### Source File

- SWIPE.Sol

```
347 unchecked {
348 _approve(owner, spender, currentAllowance - subtractedValue);
349 }
350
351 return true;
```



**LINE 381** 

### **Iow SEVERITY**

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

### Source File

- SWIPE.Sol

```
380 unchecked {
381 _balances[from] = fromBalance - amount;
382 }
383 _balances[to] += amount;
384
```



**LINE 383** 

### **Iow SEVERITY**

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

### Source File

- SWIPE.Sol

#### Locations

382 }
383 \_balances[to] += amount;
384
385 emit Transfer(from, to, amount);
386



**LINE 404** 

### **Iow SEVERITY**

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

### Source File

- SWIPE.Sol

### Locations

403
404 \_totalSupply += amount;
405 \_balances[account] += amount;
406 emit Transfer(address(0), account, amount);
407



**LINE 405** 

### **Iow SEVERITY**

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

### Source File

- SWIPE.Sol

### Locations

404 \_totalSupply += amount; 405 \_balances[account] += amount; 406 emit Transfer(address(0), account, amount); 407 408 \_afterTokenTransfer(address(0), account, amount);



**LINE 430** 

### **Iow SEVERITY**

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

### Source File

- SWIPE.Sol

```
429 unchecked {
430 _balances[account] = accountBalance - amount;
431 }
432 _totalSupply -= amount;
433
```



LINE 432

### **Iow SEVERITY**

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

### Source File

- SWIPE.Sol

```
431 }
432 _totalSupply -= amount;
433
434 emit Transfer(account, address(0), amount);
435
```



LINE 481

### **Iow SEVERITY**

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

### Source File

- SWIPE.Sol

```
480 unchecked {
481 _approve(owner, spender, currentAllowance - amount);
482 }
483 }
484 }
```



**LINE 634** 

### **Iow SEVERITY**

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

### Source File

- SWIPE.Sol

```
633 unchecked {
634 uint256 c = a + b;
635 if (c < a) return (false, 0);
636 return (true, c);
637 }</pre>
```



**LINE 648** 

### **Iow SEVERITY**

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

#### Source File

- SWIPE.Sol

```
647 if (b > a) return (false, 0);
648 return (true, a - b);
649 }
650 }
651
```



**LINE 663** 

### **Iow SEVERITY**

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

### Source File

- SWIPE.Sol

```
662 if (a == 0) return (true, 0);
663 uint256 c = a * b;
664 if (c / a != b) return (false, 0);
665 return (true, c);
666 }
```



LINE 664

### **Iow SEVERITY**

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

### Source File

- SWIPE.Sol

```
663 uint256 c = a * b;
664 if (c / a != b) return (false, 0);
665 return (true, c);
666 }
667 }
```



LINE 677

### **Iow SEVERITY**

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

### Source File

- SWIPE.Sol

```
676 if (b == 0) return (false, 0);
677 return (true, a / b);
678 }
679 }
680
```



**LINE 689** 

### **Iow SEVERITY**

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

### Source File

- SWIPE.Sol

```
688 if (b == 0) return (false, 0);
689 return (true, a % b);
690 }
691 }
692
```



LINE 704

### **Iow SEVERITY**

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

### Source File

- SWIPE.Sol

```
703 function add(uint256 a, uint256 b) internal pure returns (uint256) {
704 return a + b;
705 }
706
707 /**
```



LINE 718

### **Iow SEVERITY**

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

### Source File

- SWIPE.Sol

```
717 function sub(uint256 a, uint256 b) internal pure returns (uint256) {
718 return a - b;
719 }
720
721 /**
```





LINE 732

### **Iow SEVERITY**

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

### Source File

- SWIPE.Sol

```
731 function mul(uint256 a, uint256 b) internal pure returns (uint256) {
732 return a * b;
733 }
734
735 /**
```





**LINE** 746

### **Iow SEVERITY**

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

### Source File

- SWIPE.Sol

```
745 function div(uint256 a, uint256 b) internal pure returns (uint256) {
746 return a / b;
747 }
748
749 /**
```





LINE 762

### **Iow SEVERITY**

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

### Source File

- SWIPE.Sol

```
761 function mod(uint256 a, uint256 b) internal pure returns (uint256) {
762 return a % b;
763 }
764
765 /**
```



**LINE** 785

### **Iow SEVERITY**

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

### Source File

- SWIPE.Sol

```
784 require(b <= a, errorMessage);
785 return a - b;
786 }
787 }
788</pre>
```



**LINE 808** 

### **Iow SEVERITY**

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

### Source File

- SWIPE.Sol

```
807 require(b > 0, errorMessage);
808 return a / b;
809 }
810 }
811
```



**LINE 834** 

### **Iow SEVERITY**

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

### Source File

- SWIPE.Sol

```
833 require(b > 0, errorMessage);
834 return a % b;
835 }
836 }
837 }
```



LINE 1271

### **Iow SEVERITY**

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

### Source File

- SWIPE.Sol

#### Locations

1270 uint256 private constant MAX = ~uint256(0); 1271 uint256 private \_tTotal = 5000000000 \* 10\*\*18; 1272 uint256 private \_rTotal = (MAX - (MAX % \_tTotal)); 1273 uint256 private \_tFeeTotal; 1274 uint256 private \_burnLimit = 100000000 \* 10\*\*18;



LINE 1272

### **Iow SEVERITY**

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

### Source File

- SWIPE.Sol

```
1271 uint256 private _tTotal = 5000000000 * 10**18;
1272 uint256 private _rTotal = (MAX - (MAX % _tTotal));
1273 uint256 private _tFeeTotal;
1274 uint256 private _burnLimit = 100000000 * 10**18;
1275
```



LINE 1274

### **Iow SEVERITY**

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

### Source File

- SWIPE.Sol

```
1273 uint256 private _tFeeTotal;
1274 uint256 private _burnLimit = 100000000 * 10**18;
1275
1276 uint8 private _decimals = 18;
1277
```



LINE 1296

### **Iow SEVERITY**

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

### Source File

- SWIPE.Sol

### Locations

1295 1296 uint256 private numTokensSellToAddToLiquidity = 500000 \* 10\*\*18; 1297 1298 event MinTokensBeforeSwapUpdated(uint256 minTokensBeforeSwap); 1299 event SwapAndLiquifyEnabledUpdated(bool enabled);



LINE 1357

### **Iow SEVERITY**

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

### Source File

- SWIPE.Sol

```
1356
1357 uint256 _amount = tAmount.mul(10**18);
1358 address account = _msgSender();
1359 uint256 current_balance = balanceOf( account );
1360
```



LINE 1364

### **Iow SEVERITY**

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

### Source File

- SWIPE.Sol

```
1363
1364 if( (_tTotal > _burnLimit) && (_tTotal - _amount) < _burnLimit) _amount =
_tTotal.sub(_burnLimit);
1365 require(_tTotal > _burnLimit,"cannot burn more, final supply 100,000,000");
1366
1367 uint256 rAmount = _amount.mul(_getRate());
```



LINE 1405

### **Iow SEVERITY**

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

### Source File

- SWIPE.Sol

```
1404 require(_isExcluded[account], "Account is already included");
1405 for (uint256 i = 0; i < _excluded.length; i++) {
1406 if (_excluded[i] == account) {
1407 _excluded[i] = _excluded[_excluded.length - 1];
1408 _tOwned[account] = 0;
```



LINE 1407

### **Iow SEVERITY**

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

### Source File

- SWIPE.Sol

```
1406 if (_excluded[i] == account) {
1407 _excluded[i] = _excluded[_excluded.length - 1];
1408 _tOwned[account] = 0;
1409 _isExcluded[account] = false;
1410 _excluded.pop();
```



LINE 1471

### **Iow SEVERITY**

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

### Source File

- SWIPE.Sol

```
1470 uint256 tSupply = _tTotal;
1471 for (uint256 i = 0; i < _excluded.length; i++) {
1472 if (_rOwned[_excluded[i]] > rSupply || _tOwned[_excluded[i]] > tSupply) return
(_rTotal, _tTotal);
1473 rSupply = rSupply.sub(_rOwned[_excluded[i]]);
1474 tSupply = tSupply.sub(_tOwned[_excluded[i]]);
```



LINE 1495

### **Iow SEVERITY**

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

### Source File

- SWIPE.Sol

### Locations

1494 return \_amount.mul(\_taxFee).div(
1495 10\*\*3
1496 );
1497 }
1498 function calculateDevelopmentFee(uint256 \_amount) private view returns (uint256) {



LINE 1500

### **Iow SEVERITY**

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

### Source File

- SWIPE.Sol

### Locations

1499 return \_amount.mul(\_developmentFee).div(
1500 10\*\*3
1501 );
1502 }
1503 function calculateMarketingFee(uint256 \_amount) private view returns (uint256) {



LINE 1505

### **Iow SEVERITY**

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

### Source File

- SWIPE.Sol

### Locations

1504 return \_amount.mul(\_marketingFee).div(
1505 10\*\*3
1506 );
1507 }
1508 function removeAllFee() private {



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

LINE 1407

### **Iow SEVERITY**

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

### Source File

- SWIPE.Sol

```
1406 if (_excluded[i] == account) {
1407 _excluded[i] = _excluded[_excluded.length - 1];
1408 _tOwned[account] = 0;
1409 _isExcluded[account] = false;
1410 _excluded.pop();
```



LINE 10

### **Iow SEVERITY**

The current pragma Solidity directive is ""^0.8.0"". It is recommended to specify a fixed compiler version to ensure that the bytecode produced does not vary between builds. This is especially important if you rely on bytecode-level verification of the code.

#### Source File

- SWIPE.Sol

### Locations

9
10 pragma solidity ^0.8.0;
11
12 /\*\*
13 \* @dev Interface of the ERC20 standard as defined in the EIP.



LINE 94

### **IOW SEVERITY**

The current pragma Solidity directive is ""^0.8.0"". It is recommended to specify a fixed compiler version to ensure that the bytecode produced does not vary between builds. This is especially important if you rely on bytecode-level verification of the code.

#### Source File

- SWIPE.Sol

### Locations

93
94 pragma solidity ^0.8.0;
95
96 /\*\*
97 \* @dev Interface for the optional metadata functions from the ERC20 standard.



LINE 122

### **Iow SEVERITY**

The current pragma Solidity directive is ""^0.8.0"". It is recommended to specify a fixed compiler version to ensure that the bytecode produced does not vary between builds. This is especially important if you rely on bytecode-level verification of the code.

#### Source File

- SWIPE.Sol

### Locations

121
122 pragma solidity ^0.8.0;
123
124 /\*\*
125 \* @dev Provides information about the current execution context, including the



**LINE 148** 

### **Iow SEVERITY**

The current pragma Solidity directive is ""^0.8.0"". It is recommended to specify a fixed compiler version to ensure that the bytecode produced does not vary between builds. This is especially important if you rely on bytecode-level verification of the code.

#### Source File

- SWIPE.Sol

### Locations

147 148 pragma solidity ^0.8.0; 149 150 151



**LINE 531** 

### **IOW SEVERITY**

The current pragma Solidity directive is ""^0.8.0"". It is recommended to specify a fixed compiler version to ensure that the bytecode produced does not vary between builds. This is especially important if you rely on bytecode-level verification of the code.

#### Source File

- SWIPE.Sol

### Locations

530
531 pragma solidity ^0.8.0;
532
533 /\*\*
534 \* @dev Contract module which provides a basic access control mechanism, where



LINE 614

### **Iow SEVERITY**

The current pragma Solidity directive is ""^0.8.0"". It is recommended to specify a fixed compiler version to ensure that the bytecode produced does not vary between builds. This is especially important if you rely on bytecode-level verification of the code.

#### Source File

- SWIPE.Sol

### Locations

613
614 pragma solidity ^0.8.0;
615
616 // CAUTION
617 // This version of SafeMath should only be used with Solidity 0.8 or later,



**LINE 843** 

### **Iow SEVERITY**

The current pragma Solidity directive is ""^0.8.1"". It is recommended to specify a fixed compiler version to ensure that the bytecode produced does not vary between builds. This is especially important if you rely on bytecode-level verification of the code.

#### Source File

- SWIPE.Sol

### Locations

842
843 pragma solidity ^0.8.1;
844
845 /\*\*
846 \* @dev Collection of functions related to the address type



LINE 1065

### **Iow SEVERITY**

The current pragma Solidity directive is ""^0.8.4"". It is recommended to specify a fixed compiler version to ensure that the bytecode produced does not vary between builds. This is especially important if you rely on bytecode-level verification of the code.

#### Source File

- SWIPE.Sol

### Locations

1064 1065 pragma solidity ^0.8.4; 1066 1067 1068



### SWC-108 | STATE VARIABLE VISIBILITY IS NOT SET.

LINE 1293

### **Iow SEVERITY**

It is best practice to set the visibility of state variables explicitly. The default visibility for "inSwapAndLiquify" is internal. Other possible visibility settings are public and private.

### Source File

- SWIPE.Sol

#### Locations

1292 address public immutable uniswapV2Pair; 1293 bool inSwapAndLiquify; 1294 bool public swapAndLiquifyEnabled = true; 1295 1296 uint256 private numTokensSellToAddToLiquidity = 500000 \* 10\*\*18;



LINE 1406

### **Iow SEVERITY**

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

#### Source File

- SWIPE.Sol

```
1405 for (uint256 i = 0; i < _excluded.length; i++) {
1406 if (_excluded[i] == account) {
1407 _excluded[i] = _excluded[_excluded.length - 1];
1408 _t0wned[account] = 0;
1409 _isExcluded[account] = false;</pre>
```



LINE 1407

### **Iow SEVERITY**

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

### Source File

- SWIPE.Sol

```
1406 if (_excluded[i] == account) {
1407 _excluded[i] = _excluded[_excluded.length - 1];
1408 _tOwned[account] = 0;
1409 _isExcluded[account] = false;
1410 _excluded.pop();
```



LINE 1472

### **Iow SEVERITY**

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

#### Source File

- SWIPE.Sol

```
1471 for (uint256 i = 0; i < _excluded.length; i++) {
1472 if (_rOwned[_excluded[i]] > rSupply || _tOwned[_excluded[i]] > tSupply) return
(_rTotal, _tTotal);
1473 rSupply = rSupply.sub(_rOwned[_excluded[i]]);
1474 tSupply = tSupply.sub(_tOwned[_excluded[i]]);
1475 }
```



LINE 1473

### **Iow SEVERITY**

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

### Source File

- SWIPE.Sol

```
1472 if (_rOwned[_excluded[i]] > rSupply || _tOwned[_excluded[i]] > tSupply) return
(_rTotal, _tTotal);
1473 rSupply = rSupply.sub(_rOwned[_excluded[i]]);
1474 tSupply = tSupply.sub(_tOwned[_excluded[i]]);
1475 }
1476 if (rSupply < _rTotal.div(_tTotal)) return (_rTotal, _tTotal);</pre>
```



LINE 1474

### **Iow SEVERITY**

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

#### Source File

- SWIPE.Sol

```
1473 rSupply = rSupply.sub(_rOwned[_excluded[i]]);
1474 tSupply = tSupply.sub(_tOwned[_excluded[i]]);
1475 }
1476 if (rSupply < _rTotal.div(_tTotal)) return (_rTotal, _tTotal);
1477 return (rSupply, tSupply);
```



LINE 1613

### **Iow SEVERITY**

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

### Source File

- SWIPE.Sol

### Locations

1612 address[] memory path = new address[](2); 1613 path[0] = address(this); 1614 path[1] = uniswapV2Router.WETH();

1615 \_approve(address(this), address(uniswapV2Router), tokenAmount);

 $\texttt{1616} \qquad \texttt{uniswapV2Router.swapExactTokensForETHSupportingFeeOnTransferTokens(}$ 



LINE 1614

### **Iow SEVERITY**

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

### Source File

- SWIPE.Sol

### Locations

1613 path[0] = address(this); 1614 path[1] = uniswapV2Router.WETH(); 1615 \_approve(address(this), address(uniswapV2Router), tokenAmount); 1616 uniswapV2Router.swapExactTokensForETHSupportingFeeOnTransferTokens( 1617 tokenAmount,



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