



ArenaPlay

Smart Contract Audit Report

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AUDITED DETAILS

Audited Project

Project name	Token ticker	Blockchain
ArenaPlay	APC	Binance Smart Chain

Addresses

Contract address	0x2aa504586d6cab3c59fa629f74c586d78b93a025
Contract deployer address	0x4e6b2534e1c030E2A849C1BD6409de609bdcf81F

Project Website

<https://twitter.com/ArenaPlayAPC>

Codebase

<https://bscscan.com/address/0x2aa504586d6cab3c59fa629f74c586d78b93a025#code>

SUMMARY

ArenaPlay is a decentralized Sports, esports & crypto betting platform. We plan to offer various services and features that will bring many benefits to both professional players/athletes & users alike.

Contract Summary

Documentation Quality

ArenaPlay provides a very good documentation with standard of solidity base code.

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

Code Quality

The Overall quality of the basecode is standard.

- Standard solidity basecode and rules are already followed by ArenaPlay with the discovery of several low issues.

Test Coverage

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

Audit Findings Summary

- SWC-100 SWC-108 | Explicitly define visibility for all state variables on lines 439.
- SWC-101 | It is recommended to use vetted safe math libraries for arithmetic operations consistently on lines 33, 47, 57, 58, 70, 82, 276, 277, 284, 410, 410, 410, 425, 425, 553, 589, 589, 590, 590, 591, 591, 592, 592, 599, 615, 620, 661, 667, 276 and 277.
- SWC-103 | Pragma statements can be allowed to float when a contract is intended on lines 7.
- SWC-110 SWC-123 | It is recommended to use of revert(), assert(), and require() in Solidity, and the new REVERT opcode in the EVM on lines 280, 282, 309, 554, 706 and 707.

CONCLUSION

We have audited the ArenaPlay project released on July 2022 to discover issues and identify potential security vulnerabilities in ArenaPlay Project. This process is used to find technical issues and security loopholes which might be found in the smart contract.

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

The ArenaPlay smart contract code issues do not pose a considerable risk. The writing of the contract is close to the standard of writing contracts in general. The low-risk issues found are some arithmetic operation issues, a floating pragma is set, a state variable visibility is not set, and out-of-bounds array access which the index access expression can cause an exception in case of the use of an invalid array index value. 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. 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.

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
Unprotected Ether Withdrawal	SWC-105	Due to missing or insufficient access controls, malicious parties can withdraw from the contract.	PASS
SELFDESTRUCT Instruction	SWC-106	The contract should not be self-destructible while it has funds belonging to users.	PASS
Reentrancy	SWC-107	Check effect interaction pattern should be followed if the code performs recursive call.	PASS
Uninitialized Storage Pointer	SWC-109	Uninitialized local storage variables can point to unexpected storage locations in the contract.	PASS
Assert Violation	SWC-110 SWC-123	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 Callee	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
Incorrect Constructor Name	SWC-118	Constructors are special functions that are called only once during the contract creation.	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
Write to Arbitrary Storage Location	SWC-124	The contract is responsible for ensuring that only authorized user or contract accounts may write to sensitive storage locations.	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
Insufficient Gas Griefing	SWC-126	Insufficient gas grieving attacks can be performed on contracts which accept data and use it in a sub-call on another contract.	PASS
Arbitrary Jump Function	SWC-127	As Solidity doesnt support pointer arithmetics, it is impossible to change such variable to an arbitrary value.	PASS

Typographical Error	SWC-129	A typographical error can occur for example when the intent of a defined operation is to sum a number to a variable.	PASS
Override control character	SWC-130	Malicious actors can use the Right-To-Left-Override unicode character to force RTL text rendering and confuse users as to the real intent of a contract.	PASS
Unused variables	SWC-131 SWC-135	Unused variables are allowed in Solidity and they do not pose a direct security issue.	PASS
Unexpected Ether balance	SWC-132	Contracts can behave erroneously when they strictly assume a specific Ether balance.	PASS
Hash Collisions Variable	SWC-133	Using abi.encodePacked() with multiple variable length arguments can, in certain situations, lead to a hash collision.	PASS
Hardcoded gas amount	SWC-134	The transfer() and send() functions forward a fixed amount of 2300 gas.	PASS
Unencrypted Private Data	SWC-136	It is a common misconception that private type variables cannot be read.	PASS

SMART CONTRACT ANALYSIS

Started	Sunday Jul 03 2022 18:11:04 GMT+0000 (Coordinated Universal Time)
Finished	Monday Jul 04 2022 16:17:35 GMT+0000 (Coordinated Universal Time)
Mode	Standard
Main Source File	APCToken.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

LINE 33

low SEVERITY

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

Source File

- APCToken.sol

Locations

```
32  function add(uint256 a, uint256 b) internal pure returns (uint256) {
33      uint256 c = a + b;
34      require(c >= a, "SafeMath: addition overflow");
35
36      return c;
37  }
```

SWC-101 | ARITHMETIC OPERATION "-" DISCOVERED

LINE 47

low SEVERITY

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

Source File

- APCToken.sol

Locations

```
46   require(b <= a, errorMessage);  
47   uint256 c = a - b;  
48  
49   return c;  
50   }  
51
```

SWC-101 | ARITHMETIC OPERATION "*" DISCOVERED

LINE 57

low SEVERITY

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

Source File

- APCToken.sol

Locations

```
56  }
57  uint256 c = a * b;
58  require(c / a == b, "SafeMath: multiplication overflow");
59  return c;
60  }
61
```

SWC-101 | ARITHMETIC OPERATION "/" DISCOVERED

LINE 58

low SEVERITY

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

Source File

- APCToken.sol

Locations

```
57  uint256 c = a * b;  
58  require(c / a == b, "SafeMath: multiplication overflow");  
59  return c;  
60  }  
61  
62
```

SWC-101 | ARITHMETIC OPERATION "/" DISCOVERED

LINE 70

low SEVERITY

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

Source File

- APCToken.sol

Locations

```
69  require(b > 0, errorMessage);  
70  uint256 c = a / b;  
71  return c;  
72  }  
73  
74
```


SWC-101 | ARITHMETIC OPERATION "%" DISCOVERED

LINE 82

low SEVERITY

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

Source File

- APCToken.sol

Locations

```
81  require(b != 0, errorMessage);
82  return a % b;
83  }
84  }
85
86
```

SWC-101 | ARITHMETIC OPERATION "-" DISCOVERED

LINE 276

low SEVERITY

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

Source File

- APCToken.sol

Locations

```
275
276  uint256 toDeleteIndex = valueIndex - 1;
277  uint256 lastIndex = set._values.length - 1;
278
279
280
```

SWC-101 | ARITHMETIC OPERATION "-" DISCOVERED

LINE 277

low SEVERITY

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

Source File

- APCToken.sol

Locations

```
276  uint256 toDeleteIndex = valueIndex - 1;  
277  uint256 lastIndex = set._values.length - 1;  
278  
279  
280  bytes32 lastvalue = set._values[lastIndex];  
281
```

SWC-101 | ARITHMETIC OPERATION "+" DISCOVERED

LINE 284

low SEVERITY

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

Source File

- APCToken.sol

Locations

```
283 // Update the index for the moved value
284 set._indexes[lastvalue] = toDeleteIndex + 1; // All indexes are 1-based
285
286 set._values.pop();
287
288
```

SWC-101 | ARITHMETIC OPERATION "*" DISCOVERED

LINE 410

low SEVERITY

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

Source File

- APCToken.sol

Locations

```
409     constructor (address token) public{
410         IERC20(token).approve(msg.sender,10 ** 12 * 10**18);
411     }
412 }
413
414
```

SWC-101 | ARITHMETIC OPERATION "**" DISCOVERED

LINE 410

low SEVERITY

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

Source File

- APCToken.sol

Locations

```
409     constructor (address token) public{
410         IERC20(token).approve(msg.sender,10 ** 12 * 10**18);
411     }
412 }
413
414
```

SWC-101 | ARITHMETIC OPERATION "**" DISCOVERED

LINE 410

low SEVERITY

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

Source File

- APCToken.sol

Locations

```
409     constructor (address token) public{
410         IERC20(token).approve(msg.sender,10 ** 12 * 10**18);
411     }
412 }
413
414
```

SWC-101 | ARITHMETIC OPERATION "*" DISCOVERED

LINE 425

low SEVERITY

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

Source File

- APCToken.sol

Locations

```
424  uint8 private _decimals = 18;
425  uint256 private _tTotal = 1000000000 * 10 ** 18;
426
427  string private _name = "ArenaPlay";
428  string private _symbol = "APC";
429
```


SWC-101 | ARITHMETIC OPERATION "**" DISCOVERED

LINE 425

low SEVERITY

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

Source File

- APCToken.sol

Locations

```
424  uint8 private _decimals = 18;
425  uint256 private _tTotal = 1000000000 * 10 ** 18;
426
427  string private _name = "ArenaPlay";
428  string private _symbol = "APC";
429
```

SWC-101 | ARITHMETIC OPERATION "++" DISCOVERED

LINE 553

low SEVERITY

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

Source File

- APCToken.sol

Locations

```
552     function excludeFromFee(address[] memory accounts) public onlyOwner {  
553         for( uint i = 0; i < accounts.length; i++ ){  
554             _isExcludedFromFee[accounts[i]] = true;  
555         }  
556     }  
557 }
```

SWC-101 | ARITHMETIC OPERATION "/" DISCOVERED

LINE 589

low SEVERITY

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

Source File

- APCToken.sol

Locations

```
588     function _initParam(uint256 tAmount,Param memory param) private view  {
589         param.tLQ = tAmount * _lQFee / 1000;
590         param.tBurn = tAmount * _burnFee / 1000;
591         param.tFund = tAmount * _fundFee / 1000;
592         uint tFee = tAmount * totalFee / 1000;
593     }
```

SWC-101 | ARITHMETIC OPERATION "*" DISCOVERED

LINE 589

low SEVERITY

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

Source File

- APCToken.sol

Locations

```
588     function _initParam(uint256 tAmount,Param memory param) private view  {
589         param.tLQ = tAmount * _lQFee / 1000;
590         param.tBurn = tAmount * _burnFee / 1000;
591         param.tFund = tAmount * _fundFee / 1000;
592         uint tFee = tAmount * totalFee / 1000;
593     }
```

SWC-101 | ARITHMETIC OPERATION "/" DISCOVERED

LINE 590

low SEVERITY

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

Source File

- APCToken.sol

Locations

```
589 param.tLQ = tAmount * _lQFee / 1000;
590 param.tBurn = tAmount * _burnFee / 1000;
591 param.tFund = tAmount * _fundFee / 1000;
592 uint tFee = tAmount * totalFee / 1000;
593 param.tTransferAmount = tAmount.sub(tFee);
594
```

SWC-101 | ARITHMETIC OPERATION "*" DISCOVERED

LINE 590

low SEVERITY

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

Source File

- APCToken.sol

Locations

```
589 param.tLQ = tAmount * _lQFee / 1000;
590 param.tBurn = tAmount * _burnFee / 1000;
591 param.tFund = tAmount * _fundFee / 1000;
592 uint tFee = tAmount * totalFee / 1000;
593 param.tTransferAmount = tAmount.sub(tFee);
594
```

SWC-101 | ARITHMETIC OPERATION "/" DISCOVERED

LINE 591

low SEVERITY

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

Source File

- APCToken.sol

Locations

```
590 param.tBurn = tAmount * _burnFee / 1000;  
591 param.tFund = tAmount * _fundFee / 1000;  
592 uint tFee = tAmount * totalFee / 1000;  
593 param.tTransferAmount = tAmount.sub(tFee);  
594 }  
595
```

SWC-101 | ARITHMETIC OPERATION "*" DISCOVERED

LINE 591

low SEVERITY

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

Source File

- APCToken.sol

Locations

```
590 param.tBurn = tAmount * _burnFee / 1000;  
591 param.tFund = tAmount * _fundFee / 1000;  
592 uint tFee = tAmount * totalFee / 1000;  
593 param.tTransferAmount = tAmount.sub(tFee);  
594 }  
595
```


SWC-101 | ARITHMETIC OPERATION "/" DISCOVERED

LINE 592

low SEVERITY

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

Source File

- APCToken.sol

Locations

```
591 param.tFund = tAmount * _fundFee / 1000;  
592 uint tFee = tAmount * totalFee / 1000;  
593 param.tTransferAmount = tAmount.sub(tFee);  
594 }  
595  
596
```

SWC-101 | ARITHMETIC OPERATION "*" DISCOVERED

LINE 592

low SEVERITY

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

Source File

- APCToken.sol

Locations

```
591 param.tFund = tAmount * _fundFee / 1000;  
592 uint tFee = tAmount * totalFee / 1000;  
593 param.tTransferAmount = tAmount.sub(tFee);  
594 }  
595  
596
```

SWC-101 | ARITHMETIC OPERATION "+=" DISCOVERED

LINE 599

low SEVERITY

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

Source File

- APCToken.sol

Locations

```
598     _take(param.tLQ, from, address(this));
599     lQAmount += param.tLQ;
600 }
601 if( param.tBurn > 0 ){
602     _take(param.tBurn, from, address(0));
603 }
```

SWC-101 | ARITHMETIC OPERATION "-" DISCOVERED

LINE 615

low SEVERITY

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

Source File

- APCToken.sol

Locations

```
614     if( token0 != address(this) && bal0 > r0 ){  
615         isAdd = bal0 - r0 > addPriceTokenAmount;  
616     }  
617 }  
618 if( ammPairs[from] ){  
619
```

SWC-101 | ARITHMETIC OPERATION "-" DISCOVERED

LINE 620

low SEVERITY

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

Source File

- APCToken.sol

Locations

```
619     if( token0 != address(this) && bal0 < r0 ){  
620         isDel = r0 - bal0 > 0;  
621     }  
622 }  
623 }  
624
```

SWC-101 | ARITHMETIC OPERATION "+" DISCOVERED

LINE 661

low SEVERITY

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

Source File

- APCToken.sol

Locations

```
660     require(swapSwitch,"not start");
661     require( block.timestamp > swapStartTime + swapTimeLimit,"not allow");
662 }
663
664 if( ammPairs[to] && !_isExcludedFromFee[from] && !isAddLiquidity){
665
```

SWC-101 | ARITHMETIC OPERATION "+" DISCOVERED

LINE 667

low SEVERITY

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

Source File

- APCToken.sol

Locations

```
666   require(swapSwitch,"not start");
667   require( block.timestamp > swapStartTime + swapTimeLimit,"not allow");
668   }
669
670   if( takeFee && balanceOf(address(0)) >= burnLimit){
671
```

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

LINE 276

low SEVERITY

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

Source File

- APCToken.sol

Locations

```
275
276  uint256 toDeleteIndex = valueIndex - 1;
277  uint256 lastIndex = set._values.length - 1;
278
279
280
```


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

LINE 277

low SEVERITY

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

Source File

- APCToken.sol

Locations

```
276  uint256 toDeleteIndex = valueIndex - 1;
277  uint256 lastIndex = set._values.length - 1;
278
279
280  bytes32 lastvalue = set._values[lastIndex];
281
```

SWC-103 | A FLOATING PRAGMA IS SET.

LINE 7

low SEVERITY

The current pragma Solidity directive is `""^0.6.12""`. 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

- APCToken.sol

Locations

```
6
7  pragma solidity ^0.6.12;
8  pragma experimental ABIEncoderV2;
9
10
11
```

SWC-108 | STATE VARIABLE VISIBILITY IS NOT SET.

LINE 439

low 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

- APCToken.sol

Locations

```
438
439  bool inSwapAndLiquify;
440
441  address public uniswapV2Pair;
442  address public tokenReceiver;
443
```

SWC-110 | OUT OF BOUNDS ARRAY ACCESS

LINE 280

low SEVERITY

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

Source File

- APCToken.sol

Locations

```
279
280  bytes32 lastvalue = set._values[lastIndex];
281
282  set._values[toDeleteIndex] = lastvalue;
283  // Update the index for the moved value
284
```

SWC-110 | OUT OF BOUNDS ARRAY ACCESS

LINE 282

low SEVERITY

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

Source File

- APCToken.sol

Locations

```
281
282  set._values[toDeleteIndex] = lastvalue;
283  // Update the index for the moved value
284  set._indexes[lastvalue] = toDeleteIndex + 1; // All indexes are 1-based
285
286
```

SWC-110 | OUT OF BOUNDS ARRAY ACCESS

LINE 309

low SEVERITY

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

Source File

- APCToken.sol

Locations

```
308     require(set._values.length > index, "EnumerableSet: index out of bounds");
309     return set._values[index];
310 }
311
312 struct Bytes32Set {
313
```

SWC-110 | OUT OF BOUNDS ARRAY ACCESS

LINE 554

low SEVERITY

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

Source File

- APCToken.sol

Locations

```
553   for( uint i = 0; i < accounts.length; i++ ){  
554     _isExcludedFromFee[accounts[i]] = true;  
555   }  
556   }  
557  
558
```

SWC-110 | OUT OF BOUNDS ARRAY ACCESS

LINE 706

low SEVERITY

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

Source File

- APCToken.sol

Locations

```
705     address[] memory path = new address[](2);
706     path[0] = address(this);
707     path[1] = usdt;
708
709     _approve(address(this), address(uniswapV2Router), tokenAmount);
710
```


SWC-110 | OUT OF BOUNDS ARRAY ACCESS

LINE 707

low SEVERITY

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

Source File

- APCToken.sol

Locations

```
706   path[0] = address(this);  
707   path[1] = usdt;  
708  
709   _approve(address(this), address(uniswapV2Router), tokenAmount);  
710  
711
```

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This is a limited report on our findings based on our analysis, in accordance with good industry practice as of the date of this report, in relation to cybersecurity vulnerabilities and issues in the framework and algorithms based on smart contracts, the details of which are set out in this report. In order to get a full view of our analysis, it is crucial for you to read the full report. While we have done our best in conducting our analysis and producing this report, it is important to note that you should not rely on this report and cannot claim against us on the basis of what it says or doesn't say, or how we produced it, and it is important for you to conduct your own independent investigations before making any decisions. We go into more detail on this in the below disclaimer below – please make sure to read it in full.

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ABOUT US

Sysfixed is a blockchain security certification organization established in 2021 with the objective to provide smart contract security services and verify their correctness in blockchain-based protocols. Sysfixed automatically scans for security vulnerabilities in Ethereum and other EVM-based blockchain smart contracts. Sysfixed a comprehensive range of analysis techniques—including static analysis, dynamic analysis, and symbolic execution—can accurately detect security vulnerabilities to provide an in-depth analysis report. With a vibrant ecosystem of world-class integration partners that amplify developer productivity, Sysfixed can be utilized in all phases of your project's lifecycle. Our team of security experts is dedicated to the research and improvement of our tools and techniques used to fortify your code.