



Chronoly

# Smart Contract Audit Report

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# AUDITED DETAILS

## Audited Project

Project name	Token ticker	Blockchain
Chronoly	CRNO	Ethereum

## Addresses

Contract address	0xE23311294467654E0CaB14cD32A169A41be5ca8E
Contract deployer address	0xE23311294467654E0CaB14cD32A169A41be5ca8E

## Project Website

<a href="https://chronoly.io/">https://chronoly.io/</a>
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## Codebase

<a href="https://etherscan.io/address/0xE23311294467654E0CaB14cD32A169A41be5ca8E#code">https://etherscan.io/address/0xE23311294467654E0CaB14cD32A169A41be5ca8E#code</a>
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# SUMMARY

Chronoly is the world's first 24/7 watch investment platform that is making it possible for anyone to fractionally invest in rare and exclusive timepieces. Each NFT watch that we mint is backed by the physical version of the watch. The watch NFT is then broken down into fractions making it easy for anyone to invest in the watch from as little as \$10.

## Contract Summary

### Documentation Quality

Chronoly 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 Chronoly 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 438.
- SWC-101 | It is recommended to use vetted safe math libraries for arithmetic operations consistently on lines 39, 55, 58, 58, 78, 426, 426, 453, 453, 456, 457, 472, 473, 678, 678, 678, 678, 678, 682, 689, 692, 692 and 692.
- 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 423, 674, 743 and 744.
- SWC-120 | It is recommended to use external sources of randomness via oracles on lines 691.

## CONCLUSION

We have audited the Chronoly project released on April 2022 to discover issues and identify potential security vulnerabilities in Chronoly 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 a satisfactory result with some low-risk issues.

The issues found in the Chronoly smart contract code 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 state variable visibility is not set, weak sources of randomness, 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. We recommend setting the visibility of state variables explicitly. The default visibility for "inSwapAndLiquify" is internal. Other possible visibility settings are public and private also don't use any of those environment variables as sources of randomness and be aware that the use of these variables introduces a certain level of trust in miners.

# 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.	PASS
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.	ISSUE FOUND
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	Monday Apr 25 2022 12:41:45 GMT+0000 (Coordinated Universal Time)
Finished	Tuesday Apr 26 2022 12:11:05 GMT+0000 (Coordinated Universal Time)
Mode	Standard
Main Source File	CRNOTOKEN.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-108	STATE VARIABLE VISIBILITY IS NOT SET.	low	acknowledged
SWC-110	PUBLIC STATE VARIABLE WITH ARRAY TYPE CAUSING REACHABLE EXCEPTION BY DEFAULT.	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-120	POTENTIAL USE OF "BLOCK.NUMBER" AS SOURCE OF RANDOMNESS.	low	acknowledged

# SWC-101 | ARITHMETIC OPERATION "+" DISCOVERED

LINE 39

## low SEVERITY

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

## Source File

- CRNOTOKEN.sol

## Locations

```
38  function sub(uint a, uint b, string memory errorMessage) internal pure returns
(uint) {
39  require(b <= a, errorMessage);
40  uint c = a - b;
41
42  return c;
43
```

# SWC-101 | ARITHMETIC OPERATION "-" DISCOVERED

LINE 55

## low SEVERITY

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

## Source File

- CRNOTOKEN.sol

## Locations

```
54  function div(uint a, uint b) internal pure returns (uint) {
55  return div(a, b, "SafeMath: division by zero");
56  }
57  function div(uint a, uint b, string memory errorMessage) internal pure returns
(uint) {
58  // Solidity only automatically asserts when dividing by 0
59  }
```

# SWC-101 | ARITHMETIC OPERATION "\*" DISCOVERED

LINE 58

## low SEVERITY

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

## Source File

- CRNOTOKEN.sol

## Locations

```
57  function div(uint a, uint b, string memory errorMessage) internal pure returns
    (uint) {
58  // Solidity only automatically asserts when dividing by 0
59  require(b > 0, errorMessage);
60  uint c = a / b;
61
62
```

# SWC-101 | ARITHMETIC OPERATION "/" DISCOVERED

LINE 58

## low SEVERITY

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

## Source File

- CRNOTOKEN.sol

## Locations

```
57  function div(uint a, uint b, string memory errorMessage) internal pure returns
    (uint) {
58  // Solidity only automatically asserts when dividing by 0
59  require(b > 0, errorMessage);
60  uint c = a / b;
61
62
```

# SWC-101 | ARITHMETIC OPERATION "/" DISCOVERED

LINE 78

## low SEVERITY

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

## Source File

- CRNOTOKEN.sol

## Locations

```
77
78  event OwnershipTransferred(address indexed previousOwner, address indexed newOwner);
79
80  /**
81   * @dev Initializes the contract setting the deployer as the initial owner.
82
```

# SWC-101 | ARITHMETIC OPERATION "\*" DISCOVERED

LINE 426

## low SEVERITY

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

## Source File

- CRNOTOKEN.sol

## Locations

```
425     uint256 public BUYliquidityFee = 1;
426     uint256 public BUYtotalFee =
BUYliquidityFee.add(BUYmarketingFee).add(BUYrewardFee).add(BUYburnFee);
427
428     uint256 public SELLmarketingFee = 6;
429     uint256 public SELLrewardFee = 3;
430
```



# SWC-101 | ARITHMETIC OPERATION "\*\*" DISCOVERED

LINE 426

## low SEVERITY

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

## Source File

- CRNOTOKEN.sol

## Locations

```
425     uint256 public BUYliquidityFee = 1;
426     uint256 public BUYtotalFee =
BUYliquidityFee.add(BUYmarketingFee).add(BUYrewardFee).add(BUYburnFee);
427
428     uint256 public SELLmarketingFee = 6;
429     uint256 public SELLrewardFee = 3;
430
```

## SWC-101 | ARITHMETIC OPERATION "\*" DISCOVERED

LINE 453

### low SEVERITY

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

### Source File

- CRNOTOKEN.sol

### Locations

```
452
453     bool private swapping;
454
455
456     modifier lockTheSwap {
457
```

# SWC-101 | ARITHMETIC OPERATION "\*\*" DISCOVERED

LINE 453

## low SEVERITY

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

## Source File

- CRNOTOKEN.sol

## Locations

```
452
453     bool private swapping;
454
455
456     modifier lockTheSwap {
457
```

# SWC-101 | ARITHMETIC OPERATION "\*" DISCOVERED

LINE 456

## low SEVERITY

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

## Source File

- CRNOTOKEN.sol

## Locations

```
455
456  modifier lockTheSwap {
457    inSwapAndLiquify = true;
458    _;
459    inSwapAndLiquify = false;
460
```

# SWC-101 | ARITHMETIC OPERATION "\*\*" DISCOVERED

LINE 457

## low SEVERITY

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

## Source File

- CRNOTOKEN.sol

## Locations

```
456     modifier lockTheSwap {  
457         inSwapAndLiquify = true;  
458         _;  
459         inSwapAndLiquify = false;  
460     }  
461
```

# SWC-101 | ARITHMETIC OPERATION "\*" DISCOVERED

LINE 472

## low SEVERITY

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

## Source File

- CRNOTOKEN.sol

## Locations

```
471 // Create a uniswap pair for this new token
472 uniswapV2Pair = IUniswapV2Factory(_uniswapV2Router.factory())
473 .createPair(address(this), _uniswapV2Router.WETH());
474
475 // set the rest of the contract variables
476
```

# SWC-101 | ARITHMETIC OPERATION "\*\*" DISCOVERED

LINE 473

## low SEVERITY

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

## Source File

- CRNOTOKEN.sol

## Locations

```
472     uniswapV2Pair = IUniswapV2Factory(_uniswapV2Router.factory())  
473     .createPair(address(this), _uniswapV2Router.WETH());  
474  
475     // set the rest of the contract variables  
476     uniswapV2Router = _uniswapV2Router;  
477
```

# SWC-101 | ARITHMETIC OPERATION "+" DISCOVERED

LINE 678

## low SEVERITY

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

## Source File

- CRNOTOKEN.sol

## Locations

```
677
678   return (seed - ((seed / lotteryEligibles.length) * lotteryEligibles.length));
679
680   }
681
682
```



# SWC-101 | ARITHMETIC OPERATION "+" DISCOVERED

LINE 678

## low SEVERITY

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

## Source File

- CRNOTOKEN.sol

## Locations

```
677
678     return (seed - ((seed / lotteryEligibles.length) * lotteryEligibles.length));
679
680     }
681
682
```

# SWC-101 | ARITHMETIC OPERATION "+" DISCOVERED

LINE 678

## low SEVERITY

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

## Source File

- CRNOTOKEN.sol

## Locations

```
677  
678     return (seed - ((seed / lotteryEligibles.length) * lotteryEligibles.length));  
679  
680     }  
681  
682
```

# SWC-101 | ARITHMETIC OPERATION "+" DISCOVERED

LINE 678

## low SEVERITY

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

## Source File

- CRNOTOKEN.sol

## Locations

```
677
678   return (seed - ((seed / lotteryEligibles.length) * lotteryEligibles.length));
679
680   }
681
682
```

# SWC-101 | ARITHMETIC OPERATION "+" DISCOVERED

LINE 678

## low SEVERITY

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

## Source File

- CRNOTOKEN.sol

## Locations

```
677
678   return (seed - ((seed / lotteryEligibles.length) * lotteryEligibles.length));
679
680   }
681
682
```

# SWC-101 | ARITHMETIC OPERATION "/" DISCOVERED

LINE 682

## low SEVERITY

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

## Source File

- CRNOTOKEN.sol

## Locations

```
681
682  function showWinner() external view returns(address)
683  {
684    // selectWinner();
685    return winner;
686
```

# SWC-101 | ARITHMETIC OPERATION "/" DISCOVERED

LINE 689

## low SEVERITY

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

## Source File

- CRNOTOKEN.sol

## Locations

```
688
689  function swapAndLiquify(uint256 tokens) private lockTheSwap {
690
691    // split the contract balance into halves
692    uint256 half = tokens.div(2);
693
```

# SWC-101 | ARITHMETIC OPERATION "-" DISCOVERED

LINE 692

## low SEVERITY

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

## Source File

- CRNOTOKEN.sol

## Locations

```
691 // split the contract balance into halves
692 uint256 half = tokens.div(2);
693 uint256 otherHalf = tokens.sub(half);
694
695 // capture the contract's current ETH balance.
696
```

# SWC-101 | ARITHMETIC OPERATION "\*" DISCOVERED

LINE 692

## low SEVERITY

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

## Source File

- CRNOTOKEN.sol

## Locations

```
691 // split the contract balance into halves
692 uint256 half = tokens.div(2);
693 uint256 otherHalf = tokens.sub(half);
694
695 // capture the contract's current ETH balance.
696
```



# SWC-101 | ARITHMETIC OPERATION "/" DISCOVERED

LINE 692

## low SEVERITY

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

## Source File

- CRNOTOKEN.sol

## Locations

```
691 // split the contract balance into halves
692 uint256 half = tokens.div(2);
693 uint256 otherHalf = tokens.sub(half);
694
695 // capture the contract's current ETH balance.
696
```

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

LINE 438

### 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

- CRNOTOKEN.sol

### Locations

```
437
438  bool inSwapAndLiquify;
439  bool public swapAndLiquifyEnabled = true;
440
441
442
```

## SWC-110 | PUBLIC STATE VARIABLE WITH ARRAY TYPE CAUSING REACHABLE EXCEPTION BY DEFAULT.

LINE 423

### low SEVERITY

The public state variable "lotteryEligibles" in "CRNOTOKEN" contract has type "address[]" and can cause an exception in case of use of invalid array index value.

### Source File

- CRNOTOKEN.sol

### Locations

```
422  uint256 public BUYmarketingFee = 2;
423  uint256 public BUYrewardFee = 2;
424  uint256 public BUYburnFee = 1;
425  uint256 public BUYliquidityFee = 1;
426  uint256 public BUYtotalFee =
BUYliquidityFee.add(BUYmarketingFee).add(BUYrewardFee).add(BUYburnFee);
427
```

## SWC-110 | OUT OF BOUNDS ARRAY ACCESS

LINE 674

### low SEVERITY

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

### Source File

- CRNOTOKEN.sol

### Locations

```
673     block.gaslimit +  
674     ((uint256(keccak256(abi.encodePacked(msg.sender)))) / (block.timestamp)) +  
675     block.number  
676     ));  
677  
678
```

## SWC-110 | OUT OF BOUNDS ARRAY ACCESS

LINE 743

### low SEVERITY

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

### Source File

- CRNOTOKEN.sol

### Locations

```
742     path,  
743     address(this),  
744     block.timestamp  
745   );  
746   }  
747
```

## SWC-110 | OUT OF BOUNDS ARRAY ACCESS

LINE 744

### low SEVERITY

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

### Source File

- CRNOTOKEN.sol

### Locations

```
743     address(this),  
744     block.timestamp  
745     );  
746 }  
747  
748
```

## SWC-120 | POTENTIAL USE OF "BLOCK.NUMBER" AS SOURCE OF RANDOMNESS.

LINE 691

### low SEVERITY

The environment variable "block.number" looks like it might be used as a source of randomness. Note that the values of variables like coinbase, gaslimit, block number and timestamp are predictable and can be manipulated by a malicious miner. Also keep in mind that attackers know hashes of earlier blocks. Don't use any of those environment variables as sources of randomness and be aware that use of these variables introduces a certain level of trust into miners.

### Source File

- CRNOTOKEN.sol

### Locations

```
690
691 // split the contract balance into halves
692 uint256 half = tokens.div(2);
693 uint256 otherHalf = tokens.sub(half);
694
695
```

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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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