

# Smart Contract Security Audit V1

## Stompers Smart Contract

1/5/2022



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# Background

The purpose of the audit was to achieve the following:

- Ensure that the smart contract functions as intended.
- Identify potential security issues with the smart contract.

The information in this report should be used to understand the risk exposure of the smart contract, and as a guide to improve the security posture of the smart contract by remediating the issues that were identified.

## Project Information

- **Platform:** Ethereum
- **Contract Address:** 0xe6731cf66868e3e41f34ea0aec3280a9d5320bf3
- **Code:**

<https://rinkeby.etherscan.io/address/0x10924039ccbe60804f4853a40bf3999bd64a1ba4#code>

## NFT Information

- Name: STM
- Total Supply: 5555
- Holders:
- Total transactions:

## Contracts address deployed to test net (ETH)

Stompers Smart contract on ETH test net to test write functions by the auditor.

<https://rinkeby.etherscan.io/address/0xe6731cf66868e3e41f34ea0aec3280a9d5320bf3>

## Executive Summary

According to our assessment, the customer`s solidity smart contract is **Well-Secured**.

Well Secured	✓
Secured	
Poor Secured	
Insecure	

Automated checks are with remix IDE. All issues were performed by the team, which included the analysis of code functionality, manual audit found during automated analysis were manually reviewed and applicable vulnerabilities are presented in the audit overview section. The general overview is presented in the Project Information section and all issues found are located in the audit overview section.

Team found 0 critical, 0 high, 0 medium, 2 low, 0 very low-level issues and 0 note in all solidity files of the contract

The files:

Stompers.sol

# File and Function Level Report

File in Scope:

Contract Name	SHA 256 hash	Contract Address
Stompers.sol	16bb12fc82128ed87f7414b9e21025d2e5024d5ca6ccf9857e6b712c8bdac082	0xe6731cf66868e3e41f34ea0aec3280a9d5320bf3

- Contract: stompers
- Inherit: ERC721Enumerable, Ownable
- Observation: All passed including security check
- Test Report: passed
- Score: passed
- Conclusion: passed

Function	Test Result	Type / Return Type	Score
name	✓	Read / public	Passed
symbol	✓	Read / public	Passed
cost	✓	Read / public	Passed
supportsInterface	✓	Read / public	Passed
isWhitelisted	✓	Read / public	Passed
balanceOf	✓	Read / public	Passed
Owner	✓	Read / public	Passed
notRevealedUri	✓	Read / public	Passed
maxMintAmount	✓	Read / public	Passed
getApprovedForAll	✓	Read / public	Passed
ownerOf	✓	Read / public	Passed
getApproved	✓	Read / public	Passed

tokenURI	✓	Read / public	<b>Passed</b>
tokenByIndex	✓	Read / public	<b>Passed</b>
tokenOfOwnerByIndex	✓	Read / public	<b>Passed</b>
onlyWhitelisted	✓	Read / public	<b>Passed</b>
nftPerAddressLimit	✓	Read / public	<b>Passed</b>
whitelistedAddresses	✓	Read / public	<b>Passed</b>
paused	✓	Read / public	<b>Passed</b>
revealed	✓	Read / public	<b>Passed</b>
maxSupply	✓	Read / public	<b>Passed</b>
WalletOfOwner	✓	Read / public	<b>Passed</b>
totalSupply	✓	Read / public	<b>Passed</b>
addressMintedBalance	✓	Read / public	<b>Passed</b>
baseExtension	✓	Read / public	<b>Passed</b>
baseURI	✓	Read / public	<b>Passed</b>
reveal	✓	Write / public	<b>Passed</b>
approve	✓	Write / public	<b>Passed</b>
safeTransferFrom	✓	Write / public	<b>Passed</b>
safeTransferFrom	✓	Write / public	<b>Passed</b>
setBaseExtension	✓	Write / public	<b>Passed</b>
mint	✓	Write / payable	<b>Passed</b>
transferOwnership	✓	Write / public	<b>Passed</b>
setApprovalForAll	✓	Write / public	<b>Passed</b>
transferFrom	✓	Write / public	<b>Passed</b>
setPaused	✓	Write / public	<b>Passed</b>
setBaseURI	✓	Write / public	<b>Passed</b>
setMaxMintAmount	✓	Write / public	<b>Passed</b>
renounceOwnership	✓	Write / public	<b>Passed</b>

withdraw	✓	Write / payable	<b>Passed</b>
setCost	✓	Write / public	<b>Passed</b>
setNftPerAddressLimit	✓	Write / public	<b>Passed</b>
setOnlyWhitelisted	✓	Write / public	<b>Passed</b>
setNotRevealedURI	✓	Write / public	<b>Passed</b>
whitelistUsers	✓	Write / public	<b>Passed</b>

## Issues Checking Status

No.	Issue Description	Checking Status
1	Compiler warnings.	Passed
2	Race conditions and Reentrancy. Cross-function race conditions.	Passed
3	Possible delays in data delivery.	Passed
4	Oracle calls.	Passed
5	Design Logic.	Passed
6	Timestamp dependence.	Passed
7	Integer Overflow and Underflow.	Passed
8	DoS with Revert.	Passed
9	DoS with block gas limit.	Passed with notes
10	Methods execution permissions.	Passed
11	Economy model. If application logic is based on an incorrect economic model, the application would not function correctly and participants would incur financial losses. This type of issue is most often found in bonus rewards systems, Staking and Farming contracts, Vault and Vesting contracts, etc.	Passed
12	The impact of the exchange rate on the logic.	Passed
13	Private user data leaks.	Passed
14	Malicious Event log.	Passed
15	Scoping and Declarations.	Passed
16	Uninitialized storage pointers.	Passed
17	Arithmetic accuracy.	Passed



## Severity Definitions

Risk Level	Description
Critical	Critical vulnerabilities are usually straightforward to exploit and can lead to tokens loss etc.
High	High-level vulnerabilities are difficult to exploit; however, they also have significant impact on smart contract execution, e.g. public access to crucial functions
Medium	Medium-level vulnerabilities are important to fix; however, they can't lead to tokens lose
Low	Low-level vulnerabilities are mostly related to outdated, unused etc. code snippets, that can't have significant impact on execution
Note	Lowest-level vulnerabilities, code style violations and info statements can't affect smart contract execution and can be ignored.

## Audit Findings

### Critical:

No Critical severity vulnerabilities were found.

### High:

No High severity vulnerabilities were found.

### Medium:

No Medium severity vulnerabilities were found

### Low:

#### #Multiple pragma statements

Line	Pragma
11	pragma solidity ^0.8.0;
34	pragma solidity ^0.8.0;
174	pragma solidity ^0.8.0;
200	pragma solidity ^0.8.1;
228	pragma solidity ^0.8.0;
297	pragma solidity ^0.8.0;
516	pragma solidity ^0.8.0;
544	pragma solidity ^0.8.0;
593	pragma solidity ^0.8.0;
998	pragma solidity ^0.8.0;
1160	pragma solidity ^0.8.0;
1229	pragma solidity >=0.7.0 <0.9.0;

#### Description

There are multiple pragma statements in the code. Only the compiler version 0.8.13 will work with the code, but keeping only one pragma statement helps in maintaining readability of the code.

#### Remediation

Keep a single pragma statement.

Status: **Closed**. Fixed In version 2

## #Owner privileges (In the period when the owner isn't renounced)

### Description

The owner can pause and un Pause mint.

The owner can add any address to whitelist mint stage.

The owner can change the price in WL or non WL stage.

```
function setCost (uint256 _newCost) public onlyOwner {  
    cost = _newCost;  
}  
  
function pause(bool _state) public onlyOwner {  
    paused = _state;  
}  
  
function setOnlyWhitelisted(bool _state) public onlyOwner {  
    onlyWhitelisted = _state;  
}  
  
function whitelistUsers(address[] calldata _users) public onlyOwner {  
    delete whitelistedAddresses;  
    whitelistedAddresses = _users;  
}
```

### Remediation

Make these functions internal in next version or the team should announce the investors before doing anything to give them time if they want to do anything.

P.S: This issue is common to the majority of NFT smart contracts.

Status: [Acknowledged](#).

### Very Low:

No Very Low severity vulnerabilities were found.

### Notes:

No Notes were found.

# Automatic Testing

## 1- Check for security

16bb12fc82128ed87f7414b9e21025d2e5024d5ca6ccf9857e6b712c8bdac082  
File: STOMP... | Language: solidity | Size: 46256 bytes | Date: 2022-04-30T19:16:00.947Z

Critical	High	Medium	Low	Note
0	0	0	0	0



## 2- SOLIDITY STATIC ANALYSIS

### SOLIDITY STATIC ANALYSIS

☒ Select all ☒ Autorun Run

Security

☒ Select Security

- ☒ Transaction origin:  
'tx.origin' used
- ☒ Check-effects-interaction:  
Potential reentrancy bugs
- ☒ Inline assembly:  
Inline assembly used
- ☒ Block timestamp:  
Can be influenced by miners
- ☒ Low level calls:  
Should only be used by experienced devs
- ☒ Block hash:  
Can be influenced by miners
- ☒ Selfdestruct:  
Contracts using destructed contract can be broken

Gas & Economy

☒ Select Gas & Economy

- ☒ Gas costs:  
Too high gas requirement of functions
- ☒ This on local calls:  
Invocation of local functions via 'this'
- ☒ Delete dynamic array:  
Use require/assert to ensure complete deletion
- ☒ For loop over dynamic array:  
Iterations depend on dynamic array's size
- ☒ Ether transfer in loop:  
Transferring Ether in a for/while/do-while loop

### SOLIDITY STATIC ANALYSIS

ERC

☒ Select ERC

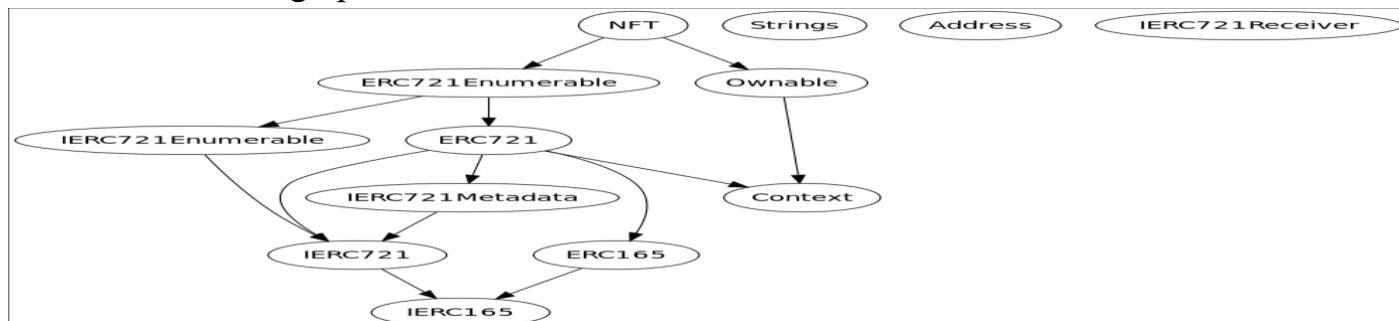
- ☒ ERC20:  
'decimals' should be 'uint8'

Miscellaneous

☒ Select Miscellaneous

- ☒ Constant/View/Pure functions:  
Potentially constant/view/pure functions
- ☒ Similar variable names:  
Variable names are too similar
- ☒ No return:  
Function with 'returns' not returning
- ☒ Guard conditions:  
Ensure appropriate use of require/assert
- ☒ Result not used:  
The result of an operation not used
- ☒ String length:  
Bytes length != String length
- ☒ Delete from dynamic array:  
'delete' leaves a gap in array
- ☒ Data truncated:  
Division on int/uint values truncates the result

## 3- Inheritance graph



## 4- SOLIDITY UNIT TESTING

### SOLIDITY UNIT TESTING

Test your smart contract in Solidity.

Select directory to load and generate test files.

Test directory:

☒ Select all

☒ tests/STOMPERS\_test.sol

Progress: 1 finished (of 1)

PASS

 testSuite  
(tests/STOMPERS\_test.sol)

✓ Before all

⌵

✓ Check success

⌵

✓ Check success2

⌵

✓ Check failure

⌵

✓ Check sender and value

⌵

**Result for tests/STOMPERS\_test.sol**

Passed: 5

Failed: 0

Time Taken: 0.46s

The diagram illustrates the relationships between various smart contract interfaces and classes. It includes packages for 'Internal Call', 'External Call', 'Defined Contract', and 'Undefined Contract'. Key components include:

- Context**: Contains `_msgSender` and `_msgData`.
- IERC721Receiver (iface)**: Contains `onERC721Received`.
- Address (lib)**: Contains `sendValue`, `functionCall`, `functionCallWithValue`, `functionStaticCall`, `functionDelegateCall`, `verifyCallResult`, `isContract`, `target`, `staticcall`, and `delegatecall`.
- Strings (lib)**: Contains `toString` and `toHexString`.
- Ownable**: Contains `onlyOwner`, `transferOwnership`, `renounceOwnership`, `owner`, `_msgSender`, and `_setOwner`.
- NFT**: Contains `withdraw`, `mint`, `tokenURI`, `reveal`, `setNftPerAddressLimit`, `setCost`, `setMaxMintAmount`, `setBaseURI`, `setBaseExtension`, `setNotRevealedURI`, `pause`, `setOnlyWhitelisted`, `whitelistUsers`, and `walletOfOwner`.
- IERC721 (iface)**: Contains `balanceOf`, `ownerOf`, `safeTransferFrom`, `transferFrom`, `approve`, `getApproved`, `setApprovalForAll`, `isApprovedForAll`.
- IERC721Metadata (iface)**: Contains `name`, `symbol`, `tokenURI`, and `supportsInterface`.
- IERC721Enumerable (iface)**: Contains `totalSupply`, `tokenOfOwnerByIndex`, `tokenByIndex`, `supportsInterface`, and `beforeTokenTransfer`.
- ERC721**: Contains `safeMint`, `safeTransferFrom`, `transferFrom`, `approve`, `getApproved`, `isApprovedForAll`, `isApprovedOwner`, `_mint`, `_burn`, `transfer`, `balanceOf`, `tokenURI`, `_msgSender`, `approve`, `beforeTokenTransfer`, `exists`, `ownerOf`, `tokenId`, `toString`, and `_baseURI`.
- ERC721Enumerable**: Contains `supportsInterface`, `_addTokenToAllTokensEnumeration`, `tokenByIndex`, `_beforeTokenTransfer`, `_removeTokenFromAllTokensEnumeration`, `_removeTokenFromOwnerEnumeration`, `_addTokenToOwnerEnumeration`, `tokenOfOwnerByIndex`, and `totalSupply`.
- IERC165 (iface)**: Contains `supportsInterface`.

The diagram shows a complex network of dependencies and interactions between these components, with many elements highlighted in red.

The diagram illustrates the relationships between several Solidity interfaces and abstract classes:

- IERC165**: An interface defining the `supportsInterface(bytes4)` method.
- ERC721**: Implements `IERC165`. It defines methods for managing tokens, including `balanceOf`, `ownerOf`, `safeTransferFrom`, `transferFrom`, `approve`, `getApproved`, `setApprovalForAll`, `isApprovedForAll`, and `safeTransferFrom`.
- ERC721Enumerable**: Inherits from `ERC721`. It adds methods for enumerating tokens, such as `totalSupply`, `tokenOwnerByIndex`, and `tokenByIndex`.
- ERC721Receiver**: An interface defining the `onERC721Received` method.
- NFT**: Inherits from `ERC721Enumerable`. It implements the `ERC721Receiver` interface and includes methods for minting, withdrawing, and managing whitelisted users.

The diagram also shows various internal state variables and functions used by these classes, such as `_name`, `_symbol`, `_owners`, `_balances`, `_tokenApprovals`, `_operatorApprovals`, `_checkOnERC721Received`, `_baseURI`, `_exists`, `_isApprovedOrOwner`, `_safeMint`, `_mintTo`, `_burn`, `_transfer`, `_approve`, `_beforeTokenTransfer`, `_addTokenToOwnerEnumeration`, `_removeTokenFromOwnerEnumeration`, `_removeTokenFromAllTokensEnumeration`, `_beforeTokenTransfer`, `_supportedInterfaces`, `_tokenOfOwnerByIndex`, `_index`, `_totalSupply`, `_tokenByIndex`, `_baseURI`, `_baseExtension`, `_notRevealedURI`, `_cost`, `_maxSupply`, `_maxMintAmount`, `_rftPerAddressLimit`, `_paused`, `_revealed`, `_onlyWhitelisted`, `_whitelistedAddresses`, `_addressMintedBalance`, `_mint`, `_withdraw`, `_constructor`, `_walletOfOwner`, `_tokenURI`, `_reveal`, `_setRftPerAddressLimit`, `_setCost`, `_setMaxMintAmount`, `_setBaseURI`, `_setBaseExtension`, `_setNotRevealedURI`, `_pause`, `_setOnlyWhitelisted`, `_whitelistUsers`, and `_users`.

## Functions signature

Sighash		Function Signature
=====		
16279055	=>	isContract (address)
01ffc9a7	=>	supportsInterface (bytes4)
70a08231	=>	balanceOf (address)
6352211e	=>	ownerOf (uint256)
42842e0e	=>	safeTransferFrom (address, address, uint256)
23b872dd	=>	transferFrom (address, address, uint256)
095ea7b3	=>	approve (address, uint256)
081812fc	=>	getApproved (uint256)
a22cb465	=>	setApprovalForAll (address, bool)
e985e9c5	=>	isApprovedForAll (address, address)
b88d4fde	=>	safeTransferFrom (address, address, uint256, bytes)
18160ddd	=>	totalSupply ()
2f745c59	=>	tokenOfOwnerByIndex (address, uint256)
4f6ccce7	=>	tokenByIndex (uint256)
6900a3ae	=>	toString (uint256)
8fba8d5c	=>	toHexString (uint256)
63e1cbea	=>	toHexString (uint256, uint256)
24a084df	=>	sendValue (address, uint256)
a0b5ffb0	=>	functionCall (address, bytes)
241b5886	=>	functionCall (address, bytes, string)
2a011594	=>	functionCallWithValue (address, bytes, uint256)
d525ab8a	=>	functionCallWithValue (address, bytes, uint256, string)
c21d36f3	=>	functionStaticCall (address, bytes)
dbc40fb9	=>	functionStaticCall (address, bytes, string)
ee33b7e2	=>	functionDelegateCall (address, bytes)
57387df0	=>	functionDelegateCall (address, bytes, string)
946b5793	=>	verifyCallResult (bool, bytes, string)
06fdde03	=>	name ()
95d89b41	=>	symbol ()
c87b56dd	=>	tokenURI (uint256)
150b7a02	=>	onERC721Received (address, address, uint256, bytes)
119df25f	=>	_msgSender ()
8b49d47e	=>	_msgData ()
743976a0	=>	_baseURI ()
24b6b8c0	=>	_safeTransfer (address, address, uint256, bytes)
f8e76cc0	=>	_exists (uint256)
4cdc9549	=>	_isApprovedOrOwner (address, uint256)
b3e1c718	=>	_safeMint (address, uint256)
6a4f832b	=>	_safeMint (address, uint256, bytes)
4e6ec247	=>	_mint (address, uint256)
9b1f9e74	=>	_burn (uint256)
30e0789e	=>	_transfer (address, address, uint256)
7b7d7225	=>	_approve (address, uint256)
1fd01de1	=>	_checkOnERC721Received (address, address, uint256, bytes)
cad3be83	=>	_beforeTokenTransfer (address, address, uint256)
69025b5f	=>	_addTokenToOwnerEnumeration (address, uint256)
e03d890b	=>	_addTokenToAllTokensEnumeration (uint256)
68df0d53	=>	_removeTokenFromOwnerEnumeration (address, uint256)
4cbb4a0a	=>	_removeTokenFromAllTokensEnumeration (uint256)
8da5cb5b	=>	owner ()
715018a6	=>	renounceOwnership ()



```
f2fde38b => transferOwnership(address)
fc201122 => _setOwner(address)
a0712d68 => mint(uint256)
3af32abf => isWhitelisted(address)
438b6300 => walletOfOwner(address)
a475b5dd => reveal()
d0eb26b0 => setNftPerAddressLimit(uint256)
44a0d68a => setCost(uint256)
7f00c7a6 => setmaxMintAmount(uint256)
55f804b3 => setBaseURI(string)
da3ef23f => setBaseExtension(string)
f2c4ce1e => setNotRevealedURI(string)
02329a29 => pause(bool)
3c952764 => setOnlyWhitelisted(bool)
edec5f27 => whitelistUsers(address[])
3ccfd60b => withdraw()
```

# Automatic general report

## Files Description Table

File Name	SHA-1 Hash
/Users/macbook/Desktop/smart contracts/STOMPERS.sol	0f2f9fe90eb386954e7d244761c0551d0d89f93e

## Contracts Description Table




















Contract	Type	Bases		
Function Name	Visibility	Mutability		
IERC165				
supportsInterface	External	NO		
IERC721				
balanceOf	External	NO		
ownerOf	External	NO		
safeTransferFrom	External	NO		
transferFrom	External	NO		
approve	External	NO		
getApproved	External	NO		
setApprovalForAll	External	NO		
isApprovedForAll	External	NO		
safeTransferFrom	External	NO		
IERC721Enumerable				
totalSupply	External	NO		
tokenOfOwnerByIndex	External	NO		
tokenByIndex	External	NO		
ERC165				
supportsInterface	Public	NO		
Strings				
toString	Internal			
toHexString	Internal			
toHexString	Internal			
Address				
isContract	Internal			
sendValue	Internal			
functionCall	Internal			
functionCall	Internal			
functionCallWithValue	Internal			
functionCallWithValue	Internal			
functionStaticCall	Internal			
functionStaticCall	Internal			

```

| L | functionDelegateCall | Internal | 🔒 | 🔒 | |
| L | functionDelegateCall | Internal | 🔒 | 🔒 | |
| L | verifyCallResult | Internal | 🔒 | | |
| | | |
| **IERC721Metadata** | Interface | IERC721 | | |
| L | name | External | ! | NO! |
| L | symbol | External | ! | NO! |
| L | tokenURI | External | ! | NO! |
| | | |
| **IERC721Receiver** | Interface | | | |
| L | onERC721Received | External | ! | 🔒 | NO! |
| | | |
| **Context** | Implementation | | | |
| L | _msgSender | Internal | 🔒 | | |
| L | _msgData | Internal | 🔒 | | |
| | | |
| **ERC721** | Implementation | Context, ERC165, IERC721, IERC721Metadata | | |
| L | <Constructor> | Public | ! | 🔒 | NO! |
| L | supportsInterface | Public | ! | NO! |
| L | balanceOf | Public | ! | NO! |
| L | ownerOf | Public | ! | NO! |
| L | name | Public | ! | NO! |
| L | symbol | Public | ! | NO! |
| L | tokenURI | Public | ! | NO! |
| L | _baseURI | Internal | 🔒 | | |
| L | approve | Public | ! | 🔒 | NO! |
| L | getApproved | Public | ! | NO! |
| L | setApprovalForAll | Public | ! | 🔒 | NO! |
| L | isApprovedForAll | Public | ! | NO! |
| L | transferFrom | Public | ! | 🔒 | NO! |
| L | safeTransferFrom | Public | ! | 🔒 | NO! |
| L | safeTransferFrom | Public | ! | 🔒 | NO! |
| L | _safeTransfer | Internal | 🔒 | 🔒 | |
| L | _exists | Internal | 🔒 | | |
| L | _isApprovedOrOwner | Internal | 🔒 | | |
| L | _safeMint | Internal | 🔒 | 🔒 | |
| L | _safeMint | Internal | 🔒 | 🔒 | |
| L | _mint | Internal | 🔒 | 🔒 | |
| L | _burn | Internal | 🔒 | 🔒 | |
| L | _transfer | Internal | 🔒 | 🔒 | |
| L | _approve | Internal | 🔒 | 🔒 | |
| L | _checkOnERC721Received | Private | 🔒 | 🔒 | |
| L | _beforeTokenTransfer | Internal | 🔒 | 🔒 | |
| | | |
| **ERC721Enumerable** | Implementation | ERC721, IERC721Enumerable | | |
| L | supportsInterface | Public | ! | NO! |
| L | tokenOfOwnerByIndex | Public | ! | NO! |
| L | totalSupply | Public | ! | NO! |
| L | tokenByIndex | Public | ! | NO! |
| L | _beforeTokenTransfer | Internal | 🔒 | 🔒 | |
| L | _addTokenToOwnerEnumeration | Private | 🔒 | 🔒 | |
| L | _addTokenToAllTokensEnumeration | Private | 🔒 | 🔒 | |
| L | _removeTokenFromOwnerEnumeration | Private | 🔒 | 🔒 | |
| L | _removeTokenFromAllTokensEnumeration | Private | 🔒 | 🔒 | |
| | | |



```

```

| **Ownable** | Implementation | Context |||
| L | <Constructor> | Public ! |  | NO! |
| L | owner | Public ! | | NO! |
| L | renounceOwnership | Public ! |  | onlyOwner |
| L | transferOwnership | Public ! |  | onlyOwner |
| L | _setOwner | Private  |  |
| |||||
| **NFT** | Implementation | ERC721Enumerable, Ownable |||
| L | <Constructor> | Public ! |  | ERC721 |
| L | _baseURI | Internal  | |
| L | mint | Public ! |  | NO! |
| L | isWhitelisted | Public ! | | NO! |
| L | walletOfOwner | Public ! | | NO! |
| L | tokenURI | Public ! | | NO! |
| L | reveal | Public ! |  | onlyOwner |
| L | setNftPerAddressLimit | Public ! |  | onlyOwner |
| L | setCost | Public ! |  | onlyOwner |
| L | setmaxMintAmount | Public ! |  | onlyOwner |
| L | setBaseURI | Public ! |  | onlyOwner |
| L | setBaseExtension | Public ! |  | onlyOwner |
| L | setNotRevealedURI | Public ! |  | onlyOwner |
| L | pause | Public ! |  | onlyOwner |
| L | setOnlyWhitelisted | Public ! |  | onlyOwner |
| L | whitelistUsers | Public ! |  | onlyOwner |
| L | withdraw | Public ! |  | onlyOwner |

```

### Legend

Symbol	Meaning
:-----:	-----
	Function can modify state
	Function is payable

## Conclusion

The contracts are written systematically. Team found no critical issues. So, it is good to go for production.

Since possible test cases can be unlimited and developer level documentation (code flow diagram with function level description) not provided, for such an extensive smart contract protocol, we provide no such guarantee of future outcomes. We have used all the latest static tools and manual observations to cover maximum possible test cases to scan Everything.

Security state of the reviewed contract is “Well-secured”.

- ✓ No volatile code.
- ✓ Not many high severity issues were found.

# Disclaimer

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 the team on the basis of what it says or doesn't say, or how team produced it, and it is important for you to conduct your own independent investigations before making any decisions. team go into more detail on this in the below disclaimer below – please make sure to read it in full.

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