

Smart Contract Security Audit V1

Nexus Ecosystem NFT Smart Contract

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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:** Avalanche C-Chain
- **Contract Address:** 0xfBFff8Ecc19e56ac314ef766850c5643F434a326
- **Code:**

<https://github.com/NexusDAODeFi/nexus-contracts/tree/main/contracts>

NFT Information

- Name: NEXUS
- Max Supply: 100,000
- NFT Type: NFT ERC721
- Total transactions:

Contracts address deployed to test net (AVAX)

Nexus Ecosystem NFT Smart contract on AVAX test net to test write functions by the auditor.

<https://testnet.snowtrace.io/address/0xfbff8ecc19e56ac314ef766850c5643f434a326>

Executive Summary

According to our assessment, the customer`s solidity smart contract is **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 notes in all solidity files of the contract

The files:

NexusERC721.sol

File and Function Level Report

File in Scope:

Contract Name	SHA 256 hash	Contract Address
NexusERC721.sol	48c5c670a341838938e72331e188464a11c50e882ff71c89c5a0558a12402f70	0xfBFff8Ecc19e56ac314ef766850c5643F434a326

- Contract: NexusERC721
- Inherit: ERC721, ERC721Enumerable, ERC721Burnable, Ownable, Pausable
- 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
treasury	✓	Read / public	Passed
supportsInterface	✓	Read / public	Passed
treasuryFee	✓	Read / public	Passed
balanceOf	✓	Read / public	Passed
Owner	✓	Read / public	Passed
vault	✓	Read / public	Passed
tokenTier	✓	Read / public	Passed
getApprovedForAll	✓	Read / public	Passed
ownerOf	✓	Read / public	Passed
getApproved	✓	Read / public	Passed

tokenName	✓	Read / public	Passed
tokenURI	✓	Read / public	Passed
tokenByIndex	✓	Read / public	Passed
tokenOfOwnerByIndex	✓	Read / public	Passed
tiers	✓	Read / public	Passed
rewardsPoolFee	✓	Read / public	Passed
paused	✓	Read / public	Passed
isAuthorized	✓	Read / public	Passed
MAX_SUPPLY	✓	Read / public	Passed
NXS	✓	Read / public	Passed
baseURI	✓	Read / public	Passed
getTokenEmissionRate	✓	Read / public	Passed
totalSupply	✓	Read / public	Passed
getTierPrice	✓	Read / public	Passed
developer	✓	Read / public	Passed
getDetailedBalance	✓	Read / public	Passed
developerFee	✓	Read / public	Passed
approve	✓	Write / public	Passed
safeTransferFrom	✓	Write / public	Passed
safeTransferFrom	✓	Write / public	Passed
upgradeTier	✓	Write / public	Passed
mint	✓	Write / public	Passed
mintWithToken	✓	Write / public	Passed
pause	✓	Write / public	Passed
transferOwnership	✓	Write / public	Passed
setApprovalForAll	✓	Write / public	Passed
transferFrom	✓	Write / public	Passed

addNewTier	✓	Write / public	Passed
setBaseURI	✓	Write / public	Passed
renounceOwnership	✓	Write / public	Passed
removeTier	✓	Write / public	Passed
unpause	✓	Write / public	Passed
burn	✓	Write / public	Passed
setDevAddress	✓	Write / public	Passed
setFees	✓	Write / public	Passed
setNXSAddress	✓	Write / public	Passed
setTierEmissionRate	✓	Write / public	Passed
setTierPrice	✓	Write / public	Passed
setTokenName	✓	Write / public	Passed
setTreasuryAddress	✓	Write / public	Passed
setVaultAddress	✓	Write / public	Passed
updateAuthorization	✓	Write / public	Passed

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
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:

#Pragam version not fixed

Description

It is a good practice to lock the solidity version for a live deployment (use 0.8.9 instead of ^0.8.9). contracts should be deployed with the same compiler version and flags that they have been tested the most with. Locking the pragma helps ensure that contracts do not accidentally get deployed using, for example, the latest compiler which may have higher risks of undiscovered bugs. Contracts may also be deployed by others and the pragma indicates the compiler version intended by the original authors.

Remediation

Remove the ^ sign to lock the pragma version.

Status: **Acknowledged.**

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

Description

Owner can change rewards Pool Fee, treasury Fee, developer Fee or make it = zero.
Owner can pause and un pause.

```
function setFees(
    uint256 _rewardsPoolFee,
    uint256 _treasuryFee,
    uint256 _developerFee
) external onlyOwner {
    require(
        _rewardsPoolFee + _treasuryFee + _developerFee == 100,
        "NexusERC721: fees not in percentage"
    );
}
```

```
        rewardsPoolFee = _rewardsPoolFee;
        treasuryFee = _treasuryFee;
        developerFee = _developerFee;

        emit FeesUpdated(rewardsPoolFee, treasuryFee, developerFee);
    }
function pause() external onlyOwner {
    _pause();
}

function unpause() external onlyOwner {
    _unpause();
}
```

Remediation

Make these functions internal in next version or the team should announce the investors before change the fees and give them time if they want to use the old fees.

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

Status: [Acknowledged](#).

Very Low:

No Very Low severity vulnerabilities were found.

Notes:

No Notes were found.

Automatic Testing

1- Check for security

289c3c51eb49360ffc05163395c4e5e4c413c6c8f1e7b85da4bc5e02fd07b3e

File: NexusE... | Language: solidity | Size: 10563 bytes | Date: 2022-03-08T08:53:23.602Z

Critical	High	Medium	Low	Note
0	0	0	0	0



2- SOLIDITY STATIC ANALYSIS

SOLIDITY STATIC ANALYSIS

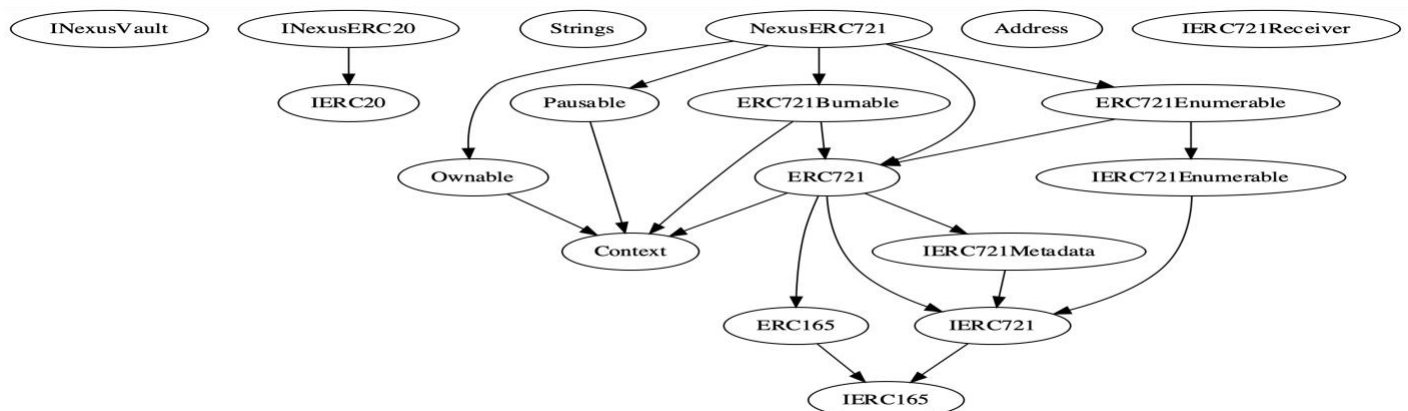
☒ Select all ☒ Autorun Run

- 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:

Create

Generate How to use...

▶ Run ■ Stop

☒ Select all

☒ tests/NexusERC721_test.sol

Progress: 1 finished (of 1)

PASS **testSuite**

(tests/NexusERC721_test.sol)

✓ Before all

✓ Check success

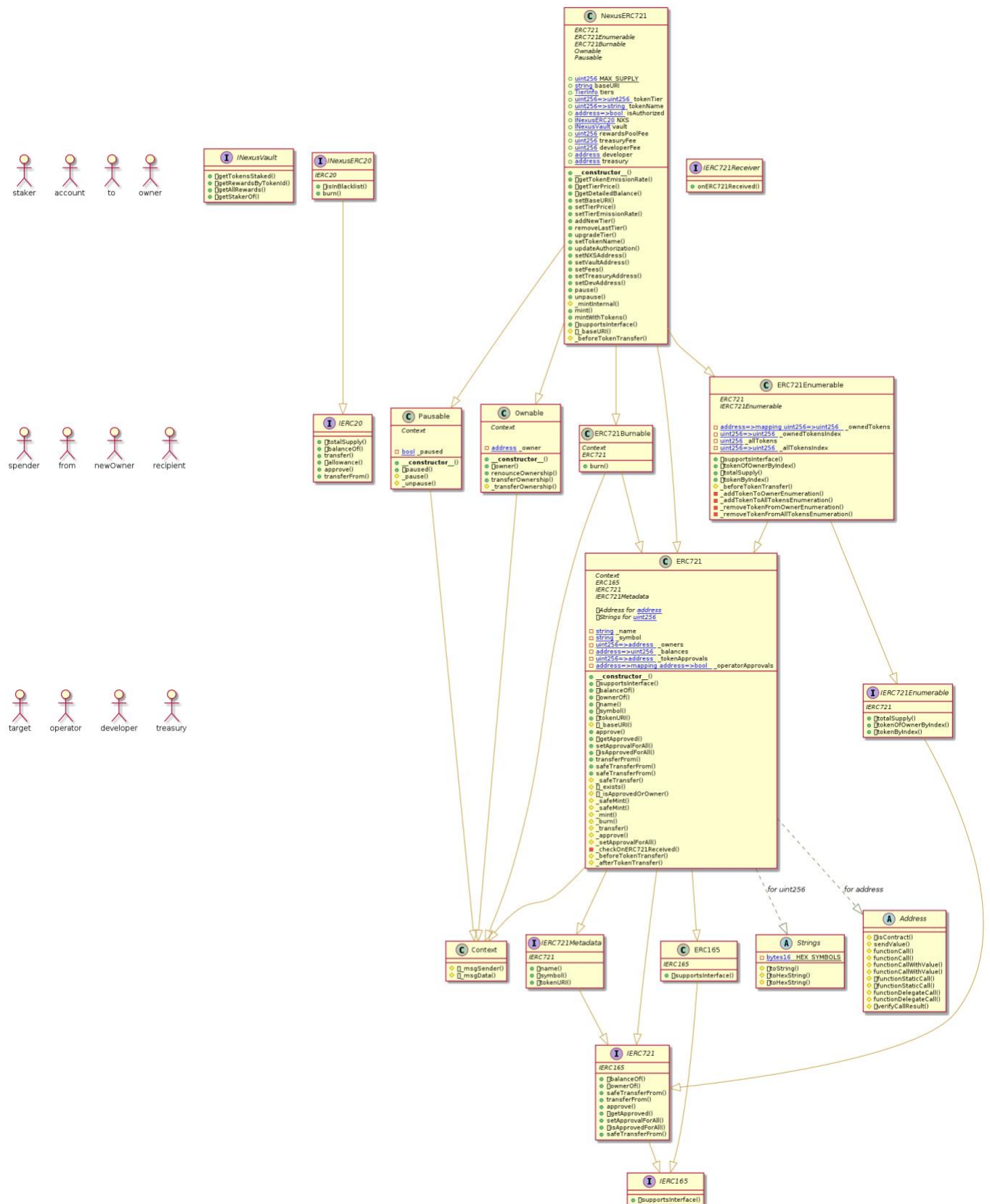
✓ Check success2

✓ Check failure

✓ Check sender and value

Result for
tests/NexusERC721_test.sol
Passed: 5
Failed: 0
Time Taken: 0.51s

Unified Modeling Language (UML)



Functions signature

Sighash		Function Signature
=====		
16279055	=>	isContract (address)
98838838	=>	removeLastTier ()
52eb7796	=>	getTokensStaked (address)
515ec105	=>	getRewardsByTokenId (uint256)
362a3fad	=>	getAllRewards (address)
8c6f90ba	=>	getStakerOf (uint256)
18160ddd	=>	totalSupply ()
70a08231	=>	balanceOf (address)
a9059cbb	=>	transfer (address, uint256)
dd62ed3e	=>	allowance (address, address)
095ea7b3	=>	approve (address, uint256)
23b872dd	=>	transferFrom (address, address, uint256)
9caf9b00	=>	isInBlacklist (address)
9dc29fac	=>	burn (address, uint256)
6900a3ae	=>	toString (uint256)
8fba8d5c	=>	toHexString (uint256)
63e1cbea	=>	toHexString (uint256, uint256)
119df25f	=>	_msgSender ()
8b49d47e	=>	_msgData ()
8da5cb5b	=>	owner ()
715018a6	=>	renounceOwnership ()
f2fde38b	=>	transferOwnership (address)
d29d44ee	=>	_transferOwnership (address)
5c975abb	=>	paused ()
320b2ad9	=>	_pause ()
fc8234cb	=>	_unpause ()
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)
150b7a02	=>	onERC721Received (address, address, uint256, bytes)
01ffc9a7	=>	supportsInterface (bytes4)
6352211e	=>	ownerOf (uint256)
42842e0e	=>	safeTransferFrom (address, address, uint256)
081812fc	=>	getApproved (uint256)
a22cb465	=>	setApprovalForAll (address, bool)
e985e9c5	=>	isApprovedForAll (address, address)
b88d4fde	=>	safeTransferFrom (address, address, uint256, bytes)
2f745c59	=>	tokenOfOwnerByIndex (address, uint256)
4f6ccce7	=>	tokenByIndex (uint256)
06fdde03	=>	name ()
95d89b41	=>	symbol ()
c87b56dd	=>	tokenURI (uint256)
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)
8c4e3f32 => _setApprovalForAll(address,address,bool)
1fd01de1 => _checkOnERC721Received(address,address,uint256,bytes)
cad3be83 => _beforeTokenTransfer(address,address,uint256)
8f811a1c => _afterTokenTransfer(address,address,uint256)
42966c68 => burn(uint256)
69025b5f => _addTokenToOwnerEnumeration(address,uint256)
e03d890b => _addTokenToAllTokensEnumeration(uint256)
68df0d53 => _removeTokenFromOwnerEnumeration(address,uint256)
4cbb4a0a => _removeTokenFromAllTokensEnumeration(uint256)
5658892b => getTokenEmissionRate(uint256)
252a8875 => getTierPrice(uint256)
2dc11759 => getDetailedBalance(address)
55f804b3 => setBaseURI(string)
5e6bb7bf => setTierPrice(uint256,uint256)
0db568fa => setTierEmissionRate(uint256,uint256)
b063c84e => addNewTier(uint256,uint256)
60d77722 => upgradeTier(uint256,uint256)
cdb0e89e => setTokenName(uint256,string)
ba2c4afc => updateAuthorization(address,bool)
f2f48546 => setNXSAddress(address)
85535cc5 => setVaultAddress(address)
cec10c11 => setFees(uint256,uint256,uint256)
6605bfda => setTreasuryAddress(address)
d0d41fe1 => setDevAddress(address)
8456cb59 => pause()
3f4ba83a => unpause()
7e0e9ed1 => _mintInternal(address,uint256,string)
d3fc9864 => mint(address,uint256,string)
7b0b5cda => mintWithTokens(uint256,string)
```

Automatic general report

Files Description Table

File Name	SHA-1 Hash
/Users/macbook/Desktop/smart contracts/NexusERC721.sol	5bb9b0b72cad6d44168e63751a226f80f6d23909

Contracts Description Table

Contract	Type	Bases	
:-----: :-----: :-----: :-----:			
L	**Function Name**	**Visibility**	**Mutability**
Modifiers			
INexusVault	Interface		
L getTokensStaked	External	!	NO!
L getRewardsByTokenId	External	!	NO!
L getAllRewards	External	!	NO!
L getStakerOf	External	!	NO!
IERC20	Interface		
L totalSupply	External	!	NO!
L balanceOf	External	!	NO!
L transfer	External	!	NO!
L allowance	External	!	NO!
L approve	External	!	NO!
L transferFrom	External	!	NO!
INexusERC20	Interface	IERC20	
L isInBlacklist	External	!	NO!
L burn	External	!	NO!
Strings	Library		
L toString	Internal	!	
L toHexString	Internal	!	
L toHexString	Internal	!	
Context	Implementation		
L _msgSender	Internal	!	
L _msgData	Internal	!	
Ownable	Implementation	Context	
L <Constructor>	Public	!	NO!
L owner	Public	!	NO!
L renounceOwnership	Public	!	onlyOwner
L transferOwnership	Public	!	onlyOwner
L _transferOwnership	Internal	!	
Pausable	Implementation	Context	
L <Constructor>	Public	!	NO!

```

| L | paused | Public ! | NO! | |
| L | _pause | Internal | whenNotPaused |
| L | _unpause | Internal | whenPaused |
| | | |
| **Address** | Library | | |
| L | isContract | Internal | |
| L | sendValue | Internal | |
| L | functionCall | Internal | |
| L | functionCall | Internal | |
| L | functionCallWithValue | Internal | |
| L | functionCallWithValue | Internal | |
| L | functionStaticCall | Internal | |
| L | functionStaticCall | Internal | |
| L | functionDelegateCall | Internal | |
| L | functionDelegateCall | Internal | |
| L | verifyCallResult | Internal | |
| | | |
| **IERC721Receiver** | Interface | | |
| L | onERC721Received | External ! | NO! |
| | | |
| **IERC165** | Interface | | |
| L | supportsInterface | External ! | NO! |
| | | |
| **ERC165** | Implementation | IERC165 | | |
| L | supportsInterface | Public ! | NO! |
| | | |
| **IERC721** | Interface | IERC165 | | |
| L | balanceOf | External ! | NO! |
| L | ownerOf | External ! | NO! |
| L | safeTransferFrom | External ! | NO! |
| L | transferFrom | External ! | NO! |
| L | approve | External ! | NO! |
| L | getApproved | External ! | NO! |
| L | setApprovalForAll | External ! | NO! |
| L | isApprovedForAll | External ! | NO! |
| L | safeTransferFrom | External ! | NO! |
| | | |
| **IERC721Enumerable** | Interface | IERC721 | | |
| L | totalSupply | External ! | NO! |
| L | tokenOfOwnerByIndex | External ! | NO! |
| L | tokenByIndex | External ! | NO! |
| | | |
| **IERC721Metadata** | Interface | IERC721 | | |
| L | name | External ! | NO! |
| L | symbol | External ! | NO! |
| L | tokenURI | External ! | NO! |
| | | |
| **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! |

```

```

| | _baseURI | Internal |  | | |
| | approve | Public |  | NO | |
| | getApproved | Public |  | NO | |
| | setApprovalForAll | Public |  | NO | |
| | isApprovedForAll | Public |  | NO | |
| | transferFrom | Public |  | NO | |
| | safeTransferFrom | Public |  | NO | |
| | safeTransferFrom | Public |  | NO | |
| | _safeTransfer | Internal |  |  | |
| | _exists | Internal |  | | |
| | _isApprovedOrOwner | Internal |  | | |
| | _safeMint | Internal |  |  | |
| | _safeMint | Internal |  |  | |
| | _mint | Internal |  |  | |
| | _burn | Internal |  |  | |
| | _transfer | Internal |  |  | |
| | _approve | Internal |  |  | |
| | _setApprovalForAll | Internal |  |  | |
| | _checkOnERC721Received | Private |  |  | |
| | _beforeTokenTransfer | Internal |  |  | |
| | _afterTokenTransfer | Internal |  |  | |
| | | |
| **ERC721Burnable** | Implementation | Context, ERC721 | | |
| | burn | Public |  | NO | |
| | | |
| **ERC721Enumerable** | Implementation | ERC721, IERC721Enumerable | | |
| | supportsInterface | Public |  | NO | |
| | tokenOfOwnerByIndex | Public |  | NO | |
| | totalSupply | Public |  | NO | |
| | tokenByIndex | Public |  | NO | |
| | _beforeTokenTransfer | Internal |  |  | |
| | _addTokenToOwnerEnumeration | Private |  |  | |
| | _addTokenToAllTokensEnumeration | Private |  |  | |
| | _removeTokenFromOwnerEnumeration | Private |  |  | |
| | _removeTokenFromAllTokensEnumeration | Private |  |  | |
| | | |
| **NexusERC721** | Implementation | ERC721, ERC721Enumerable, ERC721Burnable,
Ownable, Pausable | | |
| | <Constructor> | Public |  | ERC721 | |
| | getTokenEmissionRate | External |  | whenTokenExists |
| | getTierPrice | External |  | onlyValidTier |
| | getDetailedBalance | External |  | NO | |
| | setBaseURI | External |  | onlyOwner |
| | setTierPrice | External |  | onlyOwner onlyValidTier |
| | setTierEmissionRate | External |  | onlyOwner onlyValidTier |
| | addNewTier | External |  | onlyOwner |
| | removeLastTier | External |  | onlyOwner |
| | upgradeTier | External |  | onlyValidTier whenTokenExists
whenCallerIsOwner |
| | setTokenName | External |  | whenTokenExists whenCallerIsOwner
whenValidName |
| | updateAuthorization | External |  | onlyOwner |
| | setNXSAddress | External |  | onlyOwner |
| | setVaultAddress | External |  | onlyOwner |
| | setFees | External |  | onlyOwner |

```

```

| L | setTreasuryAddress | External ! | ⬢ | onlyOwner |
| L | setDevAddress | External ! | ⬢ | onlyOwner |
| L | pause | External ! | ⬢ | onlyOwner |
| L | unpause | External ! | ⬢ | onlyOwner |
| L | _mintInternal | Internal 🔒 | ⬢ | |
| L | mint | External ! | ⬢ | onlyValidTier whenValidName whenSupplyNotMaxed
onlyAuthorized |
| L | mintWithTokens | External ! | ⬢ | whenNotBlacklisted whenNotPaused
whenSupplyNotMaxed whenValidName onlyValidTier |
| L | supportsInterface | Public ! | NO! | |
| L | _baseURI | Internal 🔒 | | |
| L | _beforeTokenTransfer | Internal 🔒 | ⬢ | whenNotPaused |

```

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 “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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