

Smart Contract Security Audit V1

IncubateX 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:** Polygon Network
- **Contract Address:** 0x846ea1212276F9db7E26218c026E66eB00c05f3f
- **Code:**

<https://ropsten.etherscan.io/address/0xb56a656907ba4ea34daa106412b52253b8ea0bd2#code>

- **The Code:**

<https://mumbai.polygonscan.com/address/0x489bF55C961Fb94d732ED6C7Af97f343603087aC#code>

NFT Information

- Name: IX
- Total Supply: 22222
- Holders:
- Total transactions:

Contracts address deployed to test net (Polygon Network)

IncubateX NFT Smart contract on Polygon test net to test write functions by the auditor.

<https://mumbai.polygonscan.com/address/0x846ea1212276f9db7e26218c026e66eb00c05f3f>

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, 3 low, 0 very low-level issues and 0 note in all solidity files of the contract

The files:

IncubateX.sol

File and Function Level Report

File in Scope:

Contract Name	SHA 256 hash	Contract Address
IncubateX.sol	b6df8bcfde41c117b1d9f7a25a159d0d0d4161591461bc26bc5c92abe456f789	0x846ea1212276F9db7E26218c026E66eB00c05f3f

- Contract: IncubateX
- 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
saleIsActive	✓	Read / public	Passed
supportsInterface	✓	Read / public	Passed
totalSupply	✓	Read / public	Passed
balanceOf	✓	Read / public	Passed
Owner	✓	Read / public	Passed
genesisCount	✓	Read / public	Passed
getMintedGenesisTokens	✓	Read / public	Passed
getApprovedForAll	✓	Read / public	Passed
ownerOf	✓	Read / public	Passed
getApproved	✓	Read / public	Passed

tokenURI	✓	Read / public	Passed
tokenByIndex	✓	Read / public	Passed
tokenOfOwnerByIndex	✓	Read / public	Passed
PRICE_PER_NFT_Genesis	✓	Read / public	Passed
PRICE_PER_NFT_Meta	✓	Read / public	Passed
verifyUserisWL	✓	Read / public	Passed
getMintedMetaCapsule	✓	Read / public	Passed
addUserWL	✓	Write / public	Passed
approve	✓	Write / public	Passed
safeTransferFrom	✓	Write / public	Passed
safeTransferFrom	✓	Write / public	Passed
mintGenesisNft	✓	Write / payable	Passed
mintMetaNft	✓	Write / payable	Passed
transferOwnership	✓	Write / public	Passed
setApprovalForAll	✓	Write / public	Passed
transferFrom	✓	Write / public	Passed
withdrawAll	✓	Write / public	Passed
setMetaBaseURI	✓	Write / public	Passed
setGenesisPrice	✓	Write / public	Passed
renounceOwnership	✓	Write / public	Passed
withdraw	✓	Write / public	Passed
setMetaPrice	✓	Write / public	Passed
setSaleIsActive	✓	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:

#Logic errors

Description

According to the business plan the team had sent to the auditor, the auditor had found these logic errors on the smart contract.

The Error	Description
Max Supply	The team want(11,111 IncubateX Genesis Membership & 11,111 Meta Access Capsule NFTs available for mint on mint day, for a total of 22,222 NFTs) The Max Supply is Unlimited .
Whitelist error	The team want (25% of the IncubateX NFTs will be available for whitelisted community members during the presale, 2,777 Genesis Membership NFTs and 2,777 Meta Access Capsule NFTs) The error any one can mint the IX NFT at whitelist stage without being in the whitelist and there aren't any limits for minting at whitelist stage .
Secondary sales	If a member decides to independently sell their IncubateX NFT on the secondary market, they would be transferring the membership utility of that NFT to the new NFT holder. There will be a 10% royalty for secondary market sales for both the Genesis Membership NFT & Meta Access Capsule NFT. Revenue from royalties should go to to the same wallet as the project wallet for mint. The error this is normal NFT smart contract not royalty NFT contract .
Limits	Each wallet address is able to mint 10 of each of the NFTs; 10 IncubateX Genesis Membership NFTs & 10 Meta Access Capsules The error any address can hold any numbers there aren't any limits of holding IX Genesis or IX Meta .
Updates	This project is a private company project and we need to be able to make updates to the code later on if necessary.

	The error after deploying the team can only change a few things on the code using the write functions like the price, baseURI, and withdraw the funds but they can't update the smart contract.
--	--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

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

High:

No High severity vulnerabilities were found.

Medium:

No Medium severity vulnerabilities were found.

Low:

#Missing zero address validation

Description

When the investor wants to add his address to the whitelist, he has to check for the zero address to make, he didn't add the burn address. Otherwise, the investor will lose some funds as gas.

```
function addUserWL(address _addressToWhitelist) public {
    whitelistedAddresses[_addressToWhitelist] = true;
}
```

Remediation

Use the require statement to check for zero addresses.

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

#Pragam version not fixed

Description

It is a good practice to lock the solidity version for a live deployment (use 0.8.14 instead of ^0.8.7). 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: **Closed**. Fixed in version 2.

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

Description

The owner can change the Price at any time.

The owner can open or close the sale.

```
function setMetaNFTPrice(uint256 price) public onlyOwner{
    PRICE_PER_NFT_Meta =price;
}
function setSaleIsActive(bool active) external onlyOwner {
    _saleIsActive = active;
}
```

Remediation

Make these functions internal in next version or the team should announce the investors before open, close the sale or changing the price of the mint 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

b6df8bcfde41c117b1d9f7a25a159d0d0d4161591461bc26bc5c92abe456f789
File: Incubat... | Language: solidity | Size: 51199 bytes | Date: 2022-06-02T11:59:47.000Z

Critical	High	Medium	Low	Note
0	0	0	0	0



2- SOLIDITY STATIC ANALYSIS

SOLIDITY STATIC ANALYSIS

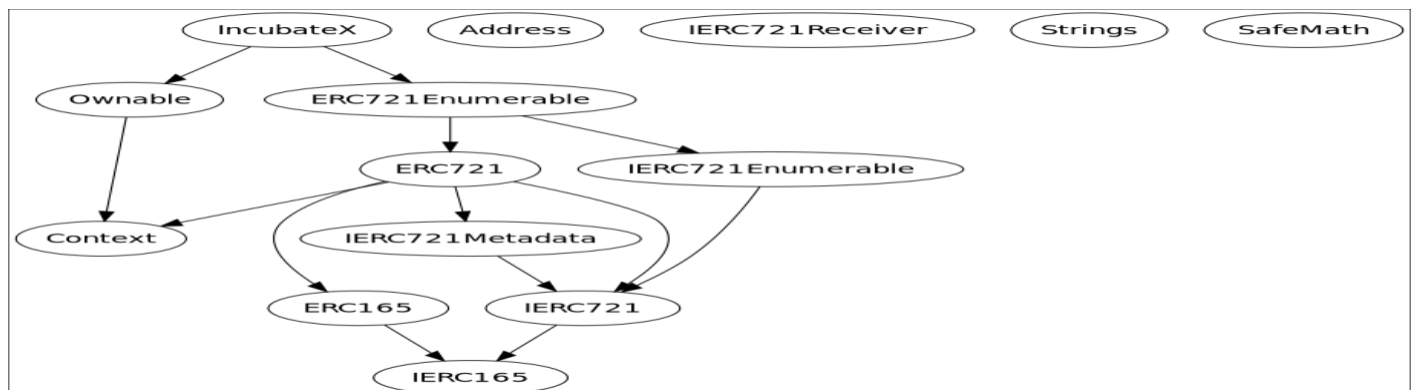
☒ Select all ☒ Autorun Run

- 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/IncubateX_test.sol

Progress: 1 finished (of 1)

PASS

 testSuite

(tests/IncubateX_test.sol)

✓ Before all

⌵

✓ Check success

⌵

✓ Check success2

⌵

✓ Check failure

⌵

✓ Check sender and value

⌵

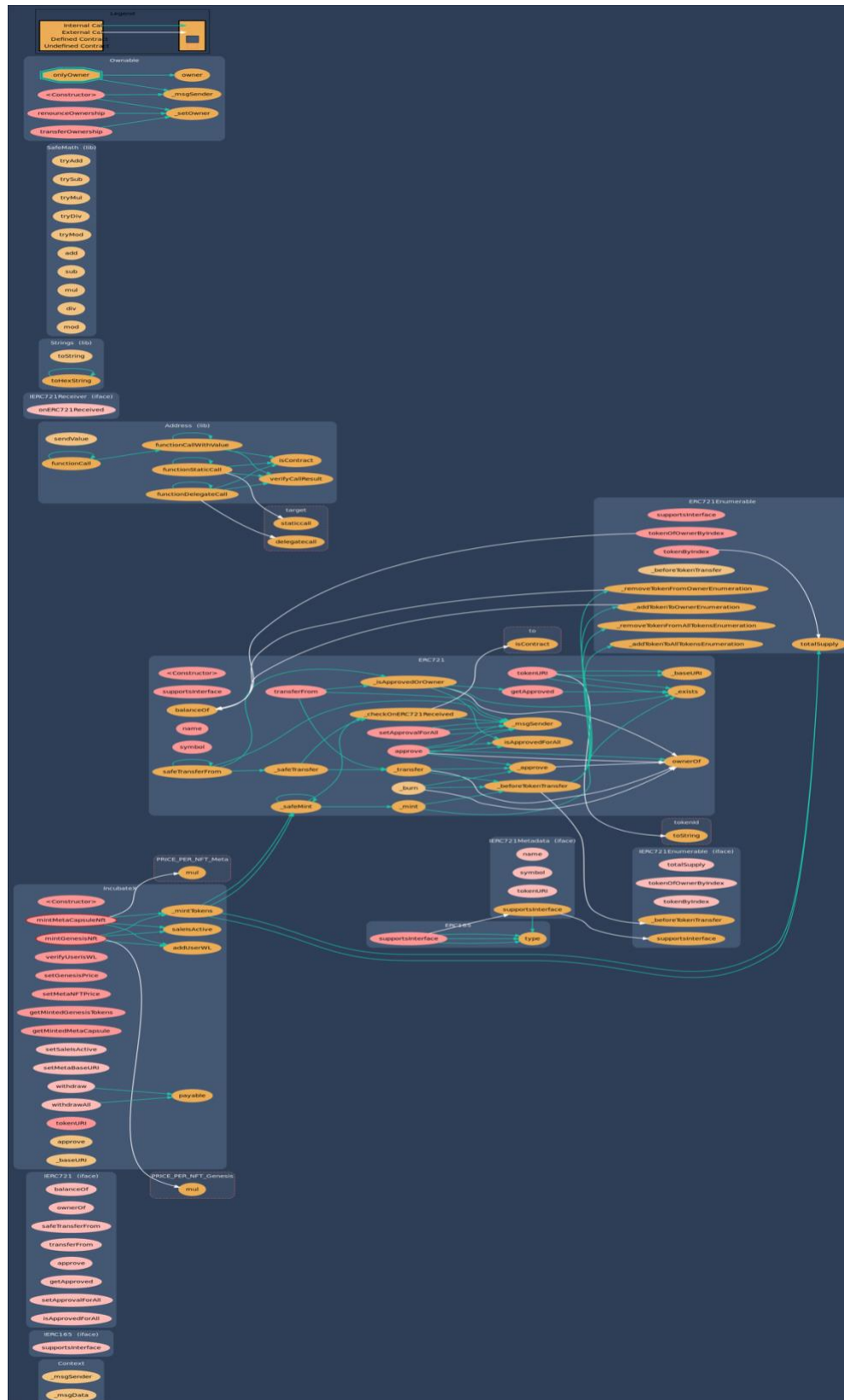
Result for tests/IncubateX_test.sol

Passed: 5

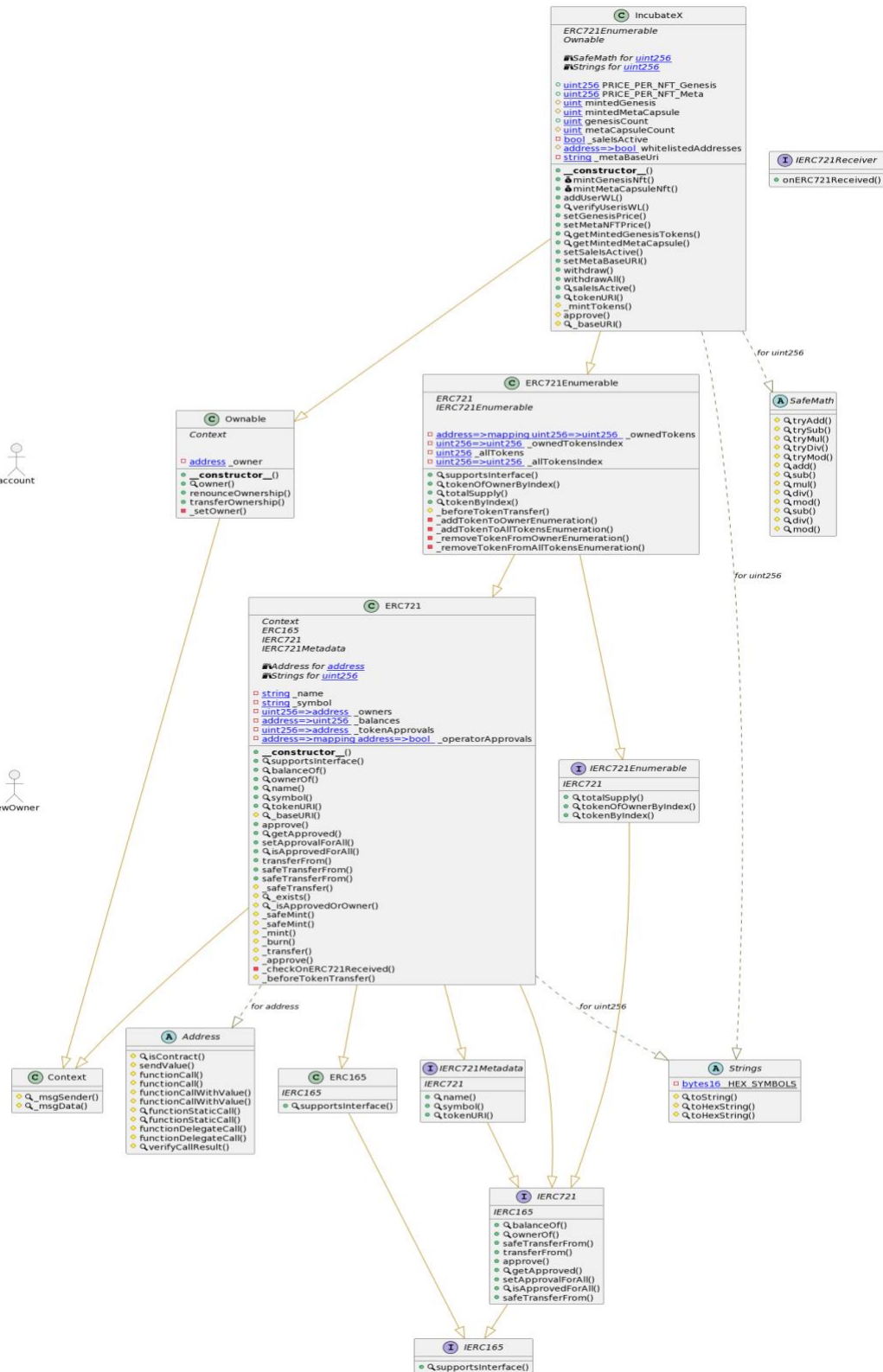
Failed: 0

Time Taken: 0.38s

5- Call graph



recipient target newOwner



Functions signature

Sighash		Function Signature
=====		
16279055	=>	isContract (address)
119df25f	=>	_msgSender ()
8b49d47e	=>	_msgData ()
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)
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)
1fd01de1	=>	_checkOnERC721Received (address, address, uint256, bytes)
cad3be83	=>	_beforeTokenTransfer (address, address, 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)
150b7a02	=>	onERC721Received (address, address, uint256, bytes)
18160ddd	=>	totalSupply ()
2f745c59	=>	tokenOfOwnerByIndex (address, uint256)
4f6ccce7	=>	tokenByIndex (uint256)
6900a3ae	=>	toString (uint256)
8fba8d5c	=>	toHexString (uint256)
63e1cbea	=>	toHexString (uint256, uint256)
884557bf	=>	tryAdd (uint256, uint256)
a29962b1	=>	trySub (uint256, uint256)
6281efa4	=>	tryMul (uint256, uint256)
736ecb18	=>	tryDiv (uint256, uint256)
38dc0867	=>	tryMod (uint256, uint256)
771602f7	=>	add (uint256, uint256)


```
b67d77c5 => sub(uint256,uint256)
c8a4ac9c => mul(uint256,uint256)
a391c15b => div(uint256,uint256)
f43f523a => mod(uint256,uint256)
e31bdc0a => sub(uint256,uint256,string)
b745d336 => div(uint256,uint256,string)
71af23e8 => mod(uint256,uint256,string)
8da5cb5b => owner()
715018a6 => renounceOwnership()
f2fde38b => transferOwnership(address)
fc201122 => _setOwner(address)
69025b5f => _addTokenToOwnerEnumeration(address,uint256)
e03d890b => _addTokenToAllTokensEnumeration(uint256)
68df0d53 => _removeTokenFromOwnerEnumeration(address,uint256)
4cbb4a0a => _removeTokenFromAllTokensEnumeration(uint256)
c16fe148 => mintGenesisNft(uint16)
b49cc889 => mintMetaCapsuleNft(uint16)
d50a165b => addUserWL(address)
1c5c4200 => verifyUserisWL(address)
61f36462 => setGenesisPrice(uint256)
9b8b4533 => setMetaNFTPrice(uint256)
5dc2fefc => getMintedGenesisTokens()
c8050c71 => getMintedMetaCapsule()
02c88989 => setSaleIsActive(bool)
18d272eb => setMetaBaseURI(string)
2e1a7d4d => withdraw(uint256)
853828b6 => withdrawAll()
eb8d2444 => saleIsActive()
89c590ab => _mintTokens(uint16,address,uint256)
febe4909 => approve(uint256,address)
```

Automatic general report

Files Description Table

File Name	SHA-1 Hash
/Users/macbook/Desktop/smart contracts/IncubateX.sol	168e2cb797fa871a0662e29504bc145f960cf2db

Contracts Description Table

Contract	Type	Bases	
:-----: :-----: :-----: :-----:			
L	**Function Name**	**Visibility**	**Mutability**
Modifiers			
Context	Implementation		
L _msgSender	Internal		
L _msgData	Internal		
IERC165	Interface		
L supportsInterface	External		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
IERC721Metadata	Interface	IERC721	
L name	External		NO
L symbol	External		NO
L tokenURI	External		NO
ERC165	Implementation	IERC165	
L supportsInterface	Public		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
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 | | | |
| | | |
| **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! |
| | | |
| **IERC721Enumerable** | Interface | IERC721 | | |
| L | totalSupply | External | ! | | NO! |
| L | tokenOfOwnerByIndex | External | ! | | NO! |
| L | tokenByIndex | External | ! | | NO! |
| | | |
| **Strings** | Library | | |
| L | toString | Internal | | |
| L | toHexString | Internal | | |
| L | toHexString | Internal | | |
| | | |
| **SafeMath** | Library | | |
| L | tryAdd | Internal | | |
| L | trySub | Internal | | |
| L | tryMul | Internal | | |
| L | tryDiv | Internal | | |
| L | tryMod | Internal | | |
| L | add | Internal | | |
| L | sub | Internal | | |
| L | mul | Internal | | |
| L | div | Internal | | |
| L | mod | Internal | | |

```

```

| L | sub | Internal | 🔒 | | |
| L | div | Internal | 🔒 | | |
| L | mod | Internal | 🔒 | | |
| | | |
| **Ownable** | Implementation | Context | | |
| L | <Constructor> | Public | ! | 🔒 | NO! |
| L | owner | Public | ! | NO! |
| L | renounceOwnership | Public | ! | 🔒 | onlyOwner |
| L | transferOwnership | Public | ! | 🔒 | onlyOwner |
| L | _setOwner | Private | 🔒 | 🔒 |
| | | |
| **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 | 🔒 | 🔒 |
| | | |
| **IncubateX** | Implementation | ERC721Enumerable, Ownable | | |
| L | <Constructor> | Public | ! | 🔒 | ERC721 |
| L | mintGenesisNft | Public | ! | 💰 | NO! |
| L | mintMetaCapsuleNft | Public | ! | 💰 | NO! |
| L | addUserWL | Public | ! | 🔒 | NO! |
| L | verifyUserisWL | Public | ! | NO! |
| L | setGenesisPrice | Public | ! | 🔒 | onlyOwner |
| L | setMetaNFTPrice | Public | ! | 🔒 | onlyOwner |
| L | getMintedGenesisTokens | Public | ! | NO! |
| L | getMintedMetaCapsule | Public | ! | NO! |
| L | setSaleIsActive | External | ! | 🔒 | onlyOwner |
| L | setMetaBaseURI | External | ! | 🔒 | onlyOwner |
| L | withdraw | External | ! | 🔒 | onlyOwner |
| L | withdrawAll | External | ! | 🔒 | onlyOwner |
| L | saleIsActive | Public | ! | NO! |
| L | tokenURI | Public | ! | NO! |
| L | _mintTokens | Internal | 🔒 | 🔒 |
| L | approve | Internal | 🔒 | 🔒 |
| L | _baseURI | Internal | 🔒 |

```

Legend

Symbol	Meaning
⚙️	Function can modify state
💰	Function is payable

Conclusion

The contracts are written systematically. Team found no critical issues in version 2. 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 Critical logic 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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