



SMART CONTRACT SECURITY AUDIT

Celestials Stellar Club

Mach 2022 <u>CheckDot</u>

Disclaimer

This is a limited report on our findings based on our analysis, in accordance with good industry practice as at 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 disclaimer below – please make sure to read it in full.

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The analysis of the security is purely based on the smart contracts alone. No applications or operations were reviewed for security. No product code has been reviewed.



Background

CheckDot was commissioned by MagicBirdsToken to perform an audit of smart contracts:

Mainnet Deployed Contract: https://etherscan.io/address/0x0858DFC6c88137755049155426881dc2B04F89fc

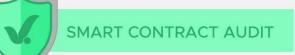
Github: https://github.com/CelestialsStellarClub/CelestialsNFTContract/tree/main

Commit Hash: 5860b725d5c73a2d5f43ae91f15a542cba48d0a2

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.
- Verify that the ERC721 structure is followed.

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.



Issues Checking Status

1.Compiler errors.Passed2.Race conditions and Reentrancy. Cross-function race conditions.Passed3.Possible delays in data delivery.Passed4.Oracle calls.None5.Front running.None6.Timestamp dependence.Passed7.Integer Overflow and Underflow.Passed	
 conditions. 3. Possible delays in data delivery. Passed 4. Oracle calls. 5. Front running. 6. Timestamp dependence. 	
4.Oracle calls.None5.Front running.None6.Timestamp dependence.Passed	
5.Front running.None6.Timestamp dependence.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 of the contract.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	
18. Design Logic.Passed	
19. Cross-function race conditions.Passed	
20. Safe Open Zeppelin contracts implementation and Passed usage.	
21. Fallback function security. Passed	
22 Fees detection Passed	

SMART CONTRACT AUDIT

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In CelestialsContract.walletOfOwner(address) var i (contracts/CelestialsContract.sol#1323) is a local variable never initialized	
CelestialsContract.constructor(string,string,string)name (contracts/CelestialsContract.sol#1276) shadows:	
- ERC721name (contracts/CelestialsContract.sol#637) (state variable)	
CelestialsContract.constructor(string,string,string)symbol (contracts/CelestialsContract.sol#1277) shadows: - ERC721symbol (contracts/CelestialsContract.sol#640) (state variable)	
CelestialsContract.walletOfOwmer(address)owmer (contracts/CelestialsContract.sol#1316) shadows:	
- Ownableowner (contracts/CelestialsContract.sol#1207) (state variable)	
ERC721checkOnERC721Received(address,address,uint256,bytes) (contracts/CelestialsContract.sol#983-1004) has external calls inside a loop: IERC721Receiver(to).onERC721Received(_msgSender(),from,tokenId,_data) (contracts/CelestialsContract.sol#990-1000)	
Variable 'ERC721checkOnERC721Received(address,address,uint256,bytes).retval (contracts/CelestialsContract.sol#990)' in ERC721checkOnERC721Received(address,address,uint256,bytes) (contracts/CelestialsContract.sol#983-1004) potentially used before declaration: retval ==	
IERC721Receiver.onERC721Received.selector (contracts/CelestialsContract.sol#991)	
Variable 'ERC721checkOnERC721Received(address,address,uint256,bytes).reason (contracts/CelestialsContract.sol#992)' in ERC721checkOnERC721Received(address,address,uint256,bytes) (contracts/CelestialsContract.sol#983-1004) potentially used before declaration: reason.length == 0	
(contracts/CelestialsContract.sol#993)	
Variable 'ERC721checkOnERC721Received(address,address,uint256,bytes).reason (contracts/CelestialsContract.sol#992)' in ERC721checkOnERC721Received(address,address,uint256,bytes) (contracts/CelestialsContract.sol#983-1004) potentially used before declaration: revert(uint256,uint256)(32 +	
reason,mload(uint256)(reason)) (contracts/CelestialsContract.sol#997)	
Address.isContract(address) (contracts/CelestialsContract.sol#353-363) uses assembly	
- INLINE ASM (contracts/CelestialsContract.sol#359-361)	
Address.verifyCallResult(bool,bytes,string) (contracts/CelestialsContract.sol#522-542) uses assembly - INLINE ASM (contracts/CelestialsContract.sol#534-537)	
ERC721checkbnERC721Received(address,address,uint256,bytes) (contracts/CelestialsContract.sol#983-1004) uses assembly	
- INLINE ASM (contracts/CelestialsContract.sol#996-998)	
CelestialsContract.tokenURI(uint256) (contracts/CelestialsContract.sol#1329-1349) compares to a boolean constant: -revealed == false (contracts/CelestialsContract.sol#1341)	
-revealed == faise (contracts/telesclaiscontract.sol#is+1)	
Different versions of Solidity is used: - Version used: ['>=0.7.0<0.9.0', '^0.8.0']	
- Velsion Usedu (pado): 400,000 (alor) - *0.8.0 (contracts/CelestialsContract.sol#44)	
- ^0.8.0 (contracts/CelestialsContract.sol#67) - ^0.8.0 (contracts/CelestialsContract.sol#207)	
- ^0.8.0 (contracts/CelestialsContract.sol#233)	
 ^0.8.0 (contracts/CelestialsContract.sol#261) ^0.8.0 (contracts/CelestialsContract.sol#330) 	
- ^0.8.0 (contracts/CelestialsContract.sol#549)	
- ^0.8.0 (contracts/CelestialsContract.sol#577) - ^0.8.0 (contracts/CelestialsContract.sol#603)	
- ^0.8.0 (contracts/CelestialsContract.sol#626)	
 - ^0.8.0 (contracts/CelestialsContract.sol#1031) - ^0.8.0 (contracts/CelestialsContract.sol#1193) 	
- >=0.7.0<0.9.0 (contracts/celestialsContract.sol#1260)	
ERC721EnumerableremoveTokenFromAllTokensEnumeration(uint256) (contracts/CelestialsContract.sol#1170-1188) has costly operations inside a loop:	
- delete _allTokensIndex[tokenId] (contracts/CelestialsContract.sol#1186)	
ERC721EnumerableremoveTokenFromAllTokensEnumeration(uint256) (contracts/CelestialsContract.sol#1170-1188) has costly operations inside a loop: allTokens.pop() (contracts/CelestialsContract.sol#1187)	
ERC721EnumerableremoveTokenFromOwnerEnumeration(address,uint256) (contracts/CelestialsContract.sol#1145-1163) has costly operations inside a loop:	
- delete _ownedTokensIndex[tokenId] (contracts/CelestialsContract.sol#1161)	
Address.functionCall(address,bytes) (contracts/CelestialsContract.sol#406-408) is never used and should be removed	
Address.functionCall(address,bytes,string) (contracts/CelestialsContract.sol#416-422) is never used and should be removed Address.functionCallWithValue(address,bytes,uint256) (contracts/CelestialsContract.sol#435-441) is never used and should be removed	
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 - Ownable.Tendontecommership() (Contracts/CelestialsContract.sol#1240-1242)
 transferOwnership(address) should be declared external:
 - Ownable.transferOwnership(address) (contracts/CelestialsContract.sol#1248-1251) - Ownapie: traisferommersinf(duress) (contracts/celestialsContract.sol#1240-1251)
 mint(uint256) should be declared external:
 - CelestialsContract.viewBalanceUsed() contracts/CelestialsContract.sol#1312-1314)
 valletofOwner(address) should be declared external: CelestialsContract.walletOfOwner(address) (contracts/CelestialsContract.sol#1316-1327)
 reveal() should be declared external:

 CelestialsContract.reveal() (contracts/CelestialsContract.sol#1351-1353)

 CelestialsContract.pause(0001) (Contracts/CelestialsContract.sOl#1399-1581)
 withdraw() should be declared external:

 CelestialsContract.withdraw() (contracts/CelestialsContract.sol#1383-1387)

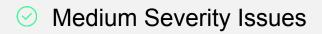
 Reference: https://github.com/crytic/slither/wiki/Detector-Documentation#public-function-that-could-be-declared-external
 mainet:0x0858DFC6c88137755049155426881dc2B04F89fc analyzed (13 contracts with 80 detectors), 81 result(s) found

Issues Categories

Total: [0 High, 0 Medium, 1 Low]



No high severity issues found.



No medium severity issues found.

O Low Severity Issues

1. In CelestialsContract.walletOfOwner(address) the variable i in (contracts/CelestialsContract.sol#1323) is a local variable never initialized.

Contract Interface:

1. The ERC721 interface is respected.

Other information:

- 1. The mint function is pausable by the owner. (contracts/CelestialsContract.sol#1379)
- 2. The reveal is only manageable by the owner. (contracts/CelestialsContract.sol#1351)
- 3. The urls of the tokens are well defined at the creation of the contract, but they can be modified later by the contract owner.
- 4. No deletion of tokens is possible. The _burn function is not used.
- 5. Limited to 4962 NFT, there will be no more.



Conclusion

Smart contracts do not contain high severity issues!

The contract is coded to respect the ERC721 structure.

The contract holder will be able to update the urls of the non-fungible tokens to potentially perform graphical updates.

No vulnerabilities were detected during our functionality tests.

A limit of 4962 NFT is set and cannot be changed later.

A maximum number of currencies per wallet is defined as well as a limit on the number of currencies, but this can be changed and will not be taken into account.

CheckDot note:

Please check the disclaimer above and note, the audit makes no statements or warranties on business model, investment attractiveness or code sustainability. The report is provided for the only contract mentioned in the report and does not include any other potential contracts deployed by the Owner.