

Smart Contract Security Audit V1

1 ETH FP Smart Contract

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<https://saferico.com/>

business@saferico.com

https://t.me/SFI_ANN

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Table of Contents

Table of Contents

Background

Project Information

NFT Information

Executive Summary

File and Function Level Report

File in Scope:

Issues Checking Status

Severity Definitions

Audit Findings

Automatic testing

Testing proves

Inheritance graph

Call graph

Unified Modeling Language (UML)

Functions signature

Automatic general report

Conclusion

Disclaimer

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:** 0x4C5BB8C3dDE192d1732c73dDbf2Cfc325937CFB2
- **Code:**

<https://github.com/Saferico/Smart-Contracts-for-Projects/blob/main/1ETHFP.sol>

NFT Information

- Name: 1 ETH FP
- MAX Supply: 5555
- Holders:
- Total transactions:

Contracts address deployed to test net (Ethereum)

1 ETH FP smart contract on ETH test net to test every function by the auditor.

<https://rinkeby.etherscan.io/address/0x4c5bb8c3dde192d1732c73ddb2cfc325937cfb2>

Executive Summary

According to our assessment, the customer`s solidity smart contract is **“WELL SECURED”**. The team has fixed the low-level issues.

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

The files:

1ETHFP.sol

File and Function Level Report

File in Scope:

Contract Name	SHA 256 hash	Contract Address
1ETHFP.sol	930997af1b18e416b875d79174c6dc63ece3402a65c77a5bc2523264e5209858	0x4C5BB8C3dDE192d1732c73dDbf2Cfc325937CFB2

- Contract: 1ETHFP
- Inherit: ERC721A, Ownable, ReentrancyGuard
- 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
price	✓	Read / public	Passed
supportsInterface	✓	Read / public	Passed
royaltyFeesInBips	✓	Read / public	Passed
balanceOf	✓	Read / public	Passed
Owner	✓	Read / public	Passed
MAX_PER_Transaction	✓	Read / public	Passed
tokenOfOwner	✓	Read / public	Passed
getApprovedForAll	✓	Read / public	Passed
revealed	✓	Read / public	Passed
getApproved	✓	Read / public	Passed

ownerOf	✓	Read / public	Passed
tokenURI	✓	Read / public	Passed
totalSupply	✓	Read / public	Passed
royaltyRecipient	✓	Read / public	Passed
notRevealedURI	✓	Read / public	Passed
paused	✓	Read / public	Passed
privateListIsActive	✓	Read / public	Passed
MAX_PER_Address	✓	Read / public	Passed
merkleRoot	✓	Read / public	Passed
totalMintedByAddress	✓	Read / public	Passed
nextOwnerToExplicitlySet	✓	Read / public	Passed
numberMinted	✓	Read / public	Passed
whiteListIsActive	✓	Read / public	Passed
getOwnershipData	✓	Read / public	Passed
isValid	✓	Read / public	Passed
presaleAndWhitelistMint	✓	Write / payable	Passed
mint	✓	Write / payable	Passed
approve	✓	Write / public	Passed
safeTransferFrom	✓	Write / public	Passed
safeTransferFrom	✓	Write / public	Passed
setPaused	✓	Write / public	Passed
withdraw	✓	Write / public	Passed
reserveNFT	✓	Write / public	Passed
transferOwnership	✓	Write / public	Passed
setApprovalForAll	✓	Write / public	Passed
transferFrom	✓	Write / public	Passed

setMerkleRoot	✓	Write / public	Passed
setNotRevealedURI	✓	Write / public	Passed
renounceOwnership	✓	Write / public	Passed
setWhitelistLimit	✓	Write / public	Passed
setPrivateListActive	✓	Write / public	Passed
setPrivateListLimit	✓	Write / public	Passed
setPrice	✓	Write / public	Passed
reveal	✓	Write / public	Passed
setTeamWallet	✓	Write / public	Passed
setMAX_PER_Address	✓	Write / public	Passed
setMAX_PER_Transaction	✓	Write / public	Passed
setBaseURI	✓	Write / public	Passed
airdrop	✓	Write / public	Passed
setWhitelistActive	✓	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 with Notes
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:

#Missing zero address validation

Description

When the owner wants to airdrop NFTs for investors, he has to check for the zero address to make, he didn't mint for the zero address. And he has to check when he add the team wallet too, Otherwise, the mint function will act like burn function.

```
function setTeamWallet(address _newTeamWallet) public onlyOwner {  
    teamWallet = _newTeamWallet; }  
function airdrop(address beneficiary, uint256 amount) public onlyOwner {  
    _safeMint(beneficiary, amount); }
```

Remediation

Use the require statement to check for zero addresses, require to check if the contract is paused or not, and check the amount + total mint <= Max Supply in the airdrop function.

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 the newest 0.8.15 instead of ^0.8.0). 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 ^0.8.0 sign to lock the pragma version and replace it with the newest compiler.

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

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

Description

The owner can airdrop the NFT to any address.

The owner can pause and un pause the contract.

The owner can change the price.

The owner can open and close the whitelist stage, private sale, and public sale.

```
function airdrop(address beneficiary, uint256 amount) public onlyOwner {
    _safeMint(beneficiary, amount); }
function reveal() public onlyOwner {
    revealed = !revealed; }
function pause(bool _state) public onlyOwner {
    paused = _state; }
function setWhitelistActive(bool _state) public onlyOwner {
    whiteListIsActive = _state;}
function setPrivateListActive(bool _state) public onlyOwner {
    privateListIsActive = _state; }
function setPrice(uint256 _newPrice) public onlyOwner {
    price = _newPrice; }
```

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**.

#Use of block.timestamp for comparisons

Description

The value of block.timestamp can be manipulated by the miner. And conditions with strict equality is difficult to achieve -block.timestamp

Remediation

Avoid use of block.timestamp

Status: **Acknowledged**

Very Low:

No Very Low severity vulnerabilities were found.

Notes:

No Notes vulnerabilities were found.

Automatic Testing

1- Check for security

930997af1b18e416b875d79174c6dc63ece3402a65c77a5bc2523264e52098...

File: 1ETHFP.... | Language: solidity | Size: 37052 bytes | Date: 2022-07-27T12:53:15.875Z

Critical	High	Medium	Low	Note
0	0	0	0	0



2- SOLIDITY STATIC ANALYSIS

SOLIDITY STATIC ANALYSIS

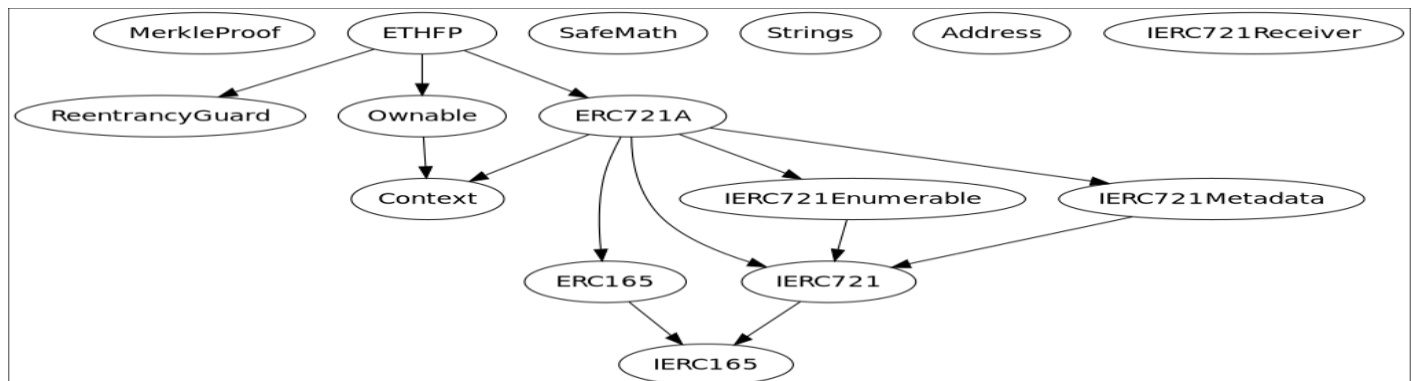
☒ Select all ☒ Autorun Run

- 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/1ETHFP_test.sol

Progress: 1 finished (of 1)

PASS

testSuite (tests/1ETHFP_test.sol)

✓ Before all

✓ Check success

✓ Check success2

✓ Check failure

✓ Check sender and value

Result for tests/1ETHFP_test.sol

Passed: 5

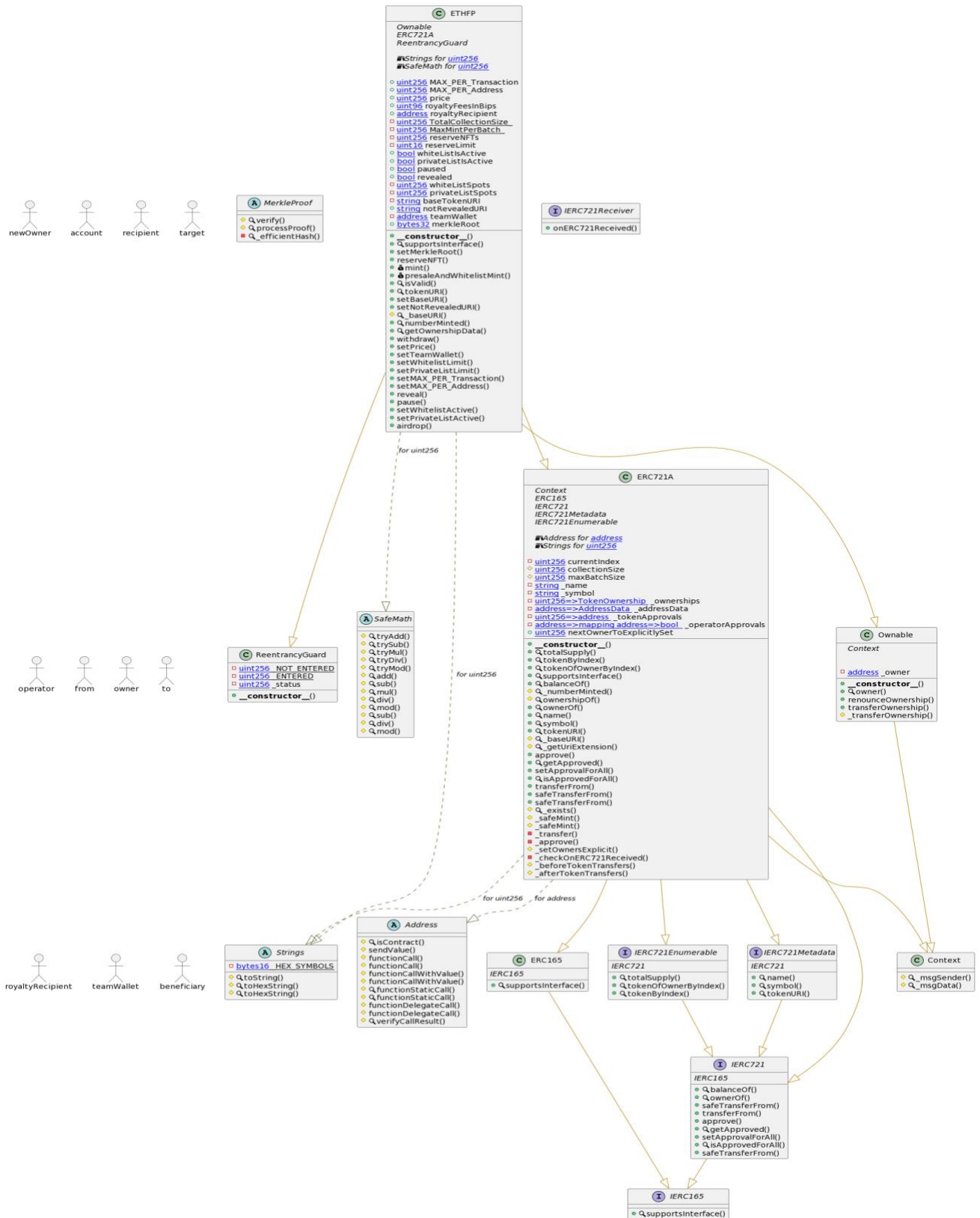
Failed: 0

Time Taken: 0.94s

5- Call graph



Unified Modeling Language (UML)



Functions signature

Sighash		Function Signature
=====		
16279055	=>	isContract (address)
5a9a49c7	=>	verify (bytes32[], bytes32, bytes32)
62702a6b	=>	processProof (bytes32[], bytes32)
41ed615b	=>	_efficientHash (bytes32, bytes32)
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)
6900a3ae	=>	toString (uint256)
8fba8d5c	=>	toHexString (uint256)
63e1cbea	=>	toHexString (uint256, uint256)
119df25f	=>	_msgSender ()
8b49d47e	=>	_msgData ()
8da5cb5b	=>	owner ()
715018a6	=>	renounceOwnership ()
f2fde38b	=>	transferOwnership (address)
d29d44ee	=>	_transferOwnership (address)
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)
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)
06fdde03	=>	name ()


```
95d89b41 => symbol()
c87b56dd => tokenURI(uint256)
4d388a98 => _numberMinted(address)
140364a1 => ownershipOf(uint256)
743976a0 => _baseURI()
406ea3ab => _getUriExtension()
f8e76cc0 => _exists(uint256)
b3e1c718 => _safeMint(address,uint256)
6a4f832b => _safeMint(address,uint256,bytes)
30e0789e => _transfer(address,address,uint256)
f272404d => _approve(address,uint256,address)
55adf19f => _setOwnersExplicit(uint256)
1fd01de1 => _checkOnERC721Received(address,address,uint256,bytes)
ef435773 => _beforeTokenTransfers(address,address,uint256,uint256)
08c018f7 => _afterTokenTransfers(address,address,uint256,uint256)
7cb64759 => setMerkleRoot(bytes32)
397be3fd => reserveNFT(uint256)
a0712d68 => mint(uint256)
0e4e6638 => presaleAndWhitelistMint(uint256,bytes32[])
b8a20ed0 => isValid(bytes32[],bytes32)
55f804b3 => setBaseURI(string)
f2c4ce1e => setNotRevealedURI(string)
dc33e681 => numberMinted(address)
9231ab2a => getOwnershipData(uint256)
3ccfd60b => withdraw()
91b7f5ed => setPrice(uint256)
1525ff7d => setTeamWallet(address)
7032d87d => setReserveLimit(uint256)
d2521ae8 => setWhitelistLimit(uint256)
b507385f => setPrivateListLimit(uint256)
25dc45ce => setMAX_PER_Transaction(uint256)
2b1b615b => setMAX_PER_Address(uint256)
a475b5dd => reveal()
02329a29 => pause(bool)
c3b754dc => setWhitelistActive(bool)
27372f0f => setPrivateListActive(bool)
8ba4cc3c => airdrop(address,uint256)
```

Automatic general report

Files Description Table

File Name	SHA-1 Hash
/Users/macbook/Desktop/smart contracts/1ETHFP.sol	b68049ed3f50fa4968ac7d5b214542aa58ab7a5d

Contracts Description Table

Contract	Type	Bases	
:-----: :-----: :-----: :-----:			
L	**Function Name**	**Visibility**	**Mutability**
Modifiers			
MerkleProof Library			
L verify	Internal		
L processProof	Internal		
L _efficientHash	Private		
ReentrancyGuard Implementation			
L <Constructor>	Public	!	NO!
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		
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 | 🔒 | 🔒 | | |
| **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! |
| **ERC721A** | Implementation | Context, ERC165, IERC721, IERC721Metadata,
IERC721Enumerable | | | |
| L | <Constructor> | Public | ⚠️ | 🔒 | NO! | |
| L | totalSupply | Public | ⚠️ | | NO! |
| L | tokenByIndex | Public | ⚠️ | | NO! |
| L | tokenOfOwnerByIndex | Public | ⚠️ | | NO! |
| L | supportsInterface | Public | ⚠️ | | NO! |
| L | balanceOf | Public | ⚠️ | | NO! |
| L | _numberMinted | Internal | 🔒 | | | |
| L | ownershipOf | Internal | 🔒 | | | |
| L | ownerOf | Public | ⚠️ | | NO! |
| L | name | Public | ⚠️ | | NO! |
| L | symbol | Public | ⚠️ | | NO! |
| L | tokenURI | Public | ⚠️ | | NO! |
| L | _baseURI | Internal | 🔒 | | | |
| L | _getUriExtension | 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	_exists	Internal	🔒				
L	_safeMint	Internal	🔒	⬤			
L	_safeMint	Internal	🔒	⬤			
L	_transfer	Private	🔒	⬤			
L	_approve	Private	🔒	⬤			
L	_setOwnersExplicit	Internal	🔒	⬤			
L	_checkOnERC721Received	Private	🔒	⬤			
L	_beforeTokenTransfers	Internal	🔒	⬤			
L	_afterTokenTransfers	Internal	🔒	⬤			
ETHFP Implementation Ownable, ERC721A, ReentrancyGuard							
L	<Constructor>	Public	!	⬤	ERC721A		
L	supportsInterface	Public	!		NO	!	
L	setMerkleRoot	Public	!	⬤	onlyOwner		
L	reserveNFT	Public	!	⬤	onlyOwner		
L	mint	Public	!	💰	NO	!	
L	presaleAndWhitelistMint	Public	!	💰	NO	!	
L	isValid	Public	!		NO	!	
L	tokenURI	Public	!		NO	!	
L	setBaseURI	Public	!	⬤	onlyOwner		
L	setNotRevealedURI	Public	!	⬤	onlyOwner		
L	_baseURI	Internal	🔒				
L	numberMinted	Public	!		NO	!	
L	getOwnershipData	External	!		NO	!	
L	withdraw	Public	!	⬤	onlyOwner nonReentrant		
L	setPrice	Public	!	⬤	onlyOwner		
L	setTeamWallet	Public	!	⬤	onlyOwner		
L	setWhitelistLimit	Public	!	⬤	onlyOwner		
L	setPrivateListLimit	Public	!	⬤	onlyOwner		
L	setMax_PER_Transaction	Public	!	⬤	onlyOwner		
L	setMax_PER_Address	Public	!	⬤	onlyOwner		
L	reveal	Public	!	⬤	onlyOwner		
L	pause	Public	!	⬤	onlyOwner		
L	setWhitelistActive	Public	!	⬤	onlyOwner		
L	setPrivateListActive	Public	!	⬤	onlyOwner		
L	airdrop	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.
- ✓ No many high severity issues were found.
- ✓ Low (or very low) level issues have been fixed.

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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