RUGFREECOINS

DripX Stakes Token

RugfreeCoins Verified on March 07th, 2024

Overview

The contract is an upgradable contract, the owner can change the functions later

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Audited project

DripX Stakes Token

Contract Address

0x3423527498C3f1fAc237F0727C9FAbcCcEB268cf

Client contact

DripX Token Team

Blockchain

Binance Smart chain

Project website

https://www.dripx.win/

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

RugfreeCoins was commissioned by the **DripX Stakes Token Team** to perform an audit of the smart contract.

https://bscscan.com/token/0x3423527498C3f1fAc237F0727C9FAbcCcEB268cf

This audit focuses on verifying that the smart contract is secure, resilient, and working according to the specifications.

The information in this report should be used to understand the risk exposure of the smart contract, project feasibility, and long-term sustainability, and as a guide to improving the smart contract's security posture by remediating the identified issues.

Contract details

Token contract details for 07th of March 2024

Contract name	**DRIPX Stakes**
Contract address	**0x3423527498C3f1fAc237F0727C9FAbcCcEB268cf**
Token supply	**10,193**
Token ticker	**DRIPX.S**
Token holders	**3,180**
Transaction count	**10,193**

Contract code function details

№	Category	Item	Result
1	Coding conventions	ERC20 Token standards	PASS
		Compile errors	PASS
		Compiler version security	PASS
		Visibility specifiers	PASS
		Gas consumption	PASS
		SafeMath features	PASS
		Fallback usage	PASS
		tx.origin usage	PASS
		Deprecated items	PASS
		Redundant code	PASS
		Overriding variables	PASS
2	Function call audit	Authorization of function call	PASS
		Low level function (call/delegate call) security	PASS
		Returned value security	PASS
		Self destruct function security	PASS
3	Business security & centralisation	Access control of owners	LOW ISSUE
		Business logics	PASS
		Business implementation	PASS
4	Integer overflow/underflow		PASS
5	Reentrancy		PASS
6	Exceptional reachable state		PASS
7	Transaction ordering dependence		PASS
8	Block properties dependence		PASS
9	Pseudo random number generator (PRNG)		PASS
10	DoS (Denial of Service)		PASS
11	Token vesting implementation		PASS
12	Fake deposit		PASS
13	Event security		PASS

Contract description table

The below table represents the summary of the contracts and methods in the token contract. We scanned the whole contract and listed down all the Interfaces, functions, and implementations with their visibility and mutability.

Contract	**Type**	**Bases**		
L	Function Name	Visibility	Mutability	Modifiers
AdminUpgradeability Proxy	**Implementation**	**Transparent Upgrade ableProxy**		
L		Public ❗	💵	TransparentUp gradeableProxy
TransparentUpgrade ableProxy	**Implementation**	**ERC1967 Proxy**		
L		Public ❗	💵	ERC1967Proxy
L	admin	External ❗	🛑	ifAdmin
L	implementation	External ❗	🛑	ifAdmin
L	changeAdmin	External ❗	🛑	ifAdmin
L	upgradeTo	External ❗	🛑	ifAdmin
L	upgradeToAndCall	External ❗	💵	ifAdmin
L	_admin	Internal 🔒		
L	_beforeFallback	Internal 🔒	🛑	
BeaconProxy	**Implementation**	**Proxy, ERC1967 Upgrade**		
L		Public ❗	💵	NO ❗
L	_beacon	Internal 🔒		
L	_implementation	Internal 🔒		
L	_setBeacon	Internal 🔒	🛑	

UpgradeableBeacon	**Implementation**	**IBeacon, Ownable**		
└		Public ❗	🛑	NO ❗
└	implementation	Public ❗		NO ❗
└	upgradeTo	Public ❗	🛑	onlyOwner
└	_setImplementation	Private 🔐	🛑	
ERC1967Proxy	**Implementation**	**Proxy, ERC1967 Upgrade**		
└		Public ❗	💵	NO ❗
└	_implementation	Internal 🔒		
ProxyAdmin	**Implementation**	**Ownable**		
└	getProxyImplementation	Public ❗		NO ❗
└	getProxyAdmin	Public ❗		NO ❗
└	changeProxyAdmin	Public ❗	🛑	onlyOwner
└	upgrade	Public ❗	🛑	onlyOwner
└	upgradeAndCall	Public ❗	💵	onlyOwner
IBeacon	**Interface**			
└	implementation	External ❗		NO ❗
Proxy	**Implementation**			
└	_delegate	Internal 🔒	🛑	
└	_implementation	Internal 🔒		
└	_fallback	Internal 🔒	🛑	
└		External ❗	💵	NO ❗
└		External ❗	💵	NO ❗
└	_beforeFallback	Internal 🔒	🛑	

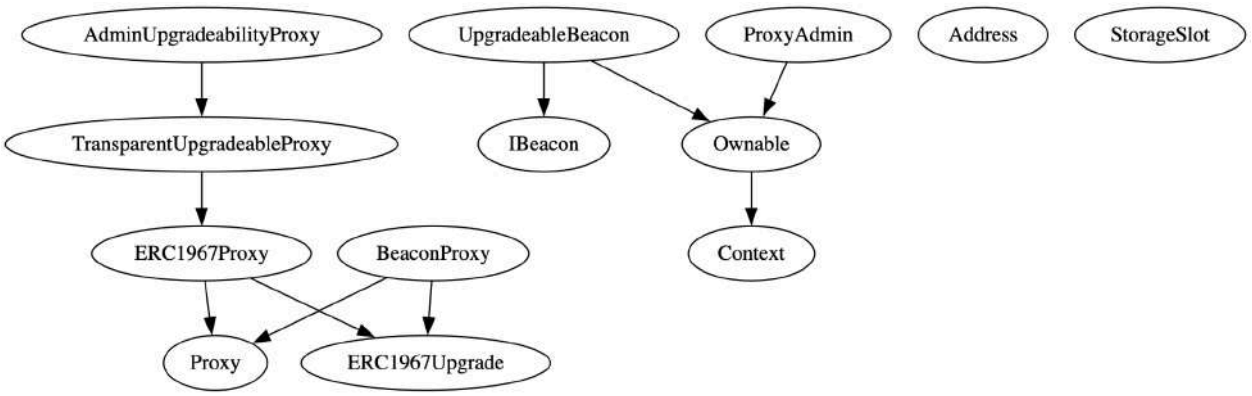
ERC1967Upgrade	**Implementation**			
L	_getImplementation	Internal 🔒		
L	_setImplementation	Private 🔐	🛑	
L	_upgradeTo	Internal 🔒	🛑	
L	_upgradeToAndCall	Internal 🔒	🛑	
L	_upgradeToAndCallSecure	Internal 🔒	🛑	
L	_upgradeBeaconToAndCall	Internal 🔒	🛑	
L	_getAdmin	Internal 🔒		
L	_setAdmin	Private 🔐	🛑	
L	_changeAdmin	Internal 🔒	🛑	
L	_getBeacon	Internal 🔒		
L	_setBeacon	Private 🔐	🛑	
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	Private 🔐		
StorageSlot	**Library**			
L	getAddressSlot	Internal 🔒		

└	getBooleanSlot	Internal 🔒		
└	getBytes32Slot	Internal 🔒		
└	getUint256Slot	Internal 🔒		
Ownable	**Implementation**	**Context**		
└		Public ❗	🛑	NO ❗
└	owner	Public ❗		NO ❗
└	renounceOwnership	Public ❗	🛑	onlyOwner
└	transferOwnership	Public ❗	🛑	onlyOwner
Context	**Implementation**			
└	_msgSender	Internal 🔒		
└	_msgData	Internal 🔒		

Legend

Symbol	Meaning
🛑	Function can modify state
💵	Function is payable

Inheritance Hierarchy



Security issue checking status

❖ High severity issues

No high severity issues

❖ Medium severity issues

No medium severity issues

❖ Low severity issues

If the owner updates the base URI to a non-functioning address, the NFT metadata will not be retrieved.

```
function updateBaseURI(string memory baseURI) public onlyOwner {
    _baseURI = baseURI;
}
```

Owner can change the royalty fee without a maximum amount

```
function updateRoyaltyFee(uint256 value) public onlyOwner {
    royaltyFee = value;
}
```

Owner privileges

- Owner can manually sync the pool

```
function manualDailyUpdate() public onlyManager {
    _dailyUpdate();
}
```

- Owner can blacklist/whitelist wallets from pool

```
function updateBlacklist(address user, bool value) public onlyOwner {
    isBlacklisted[user] = value;
}
```

- Owner can change the base URI

```
function updateBaseURI(string memory baseURI) public onlyOwner {
    _baseURI = baseURI;
}
```

❖ Owner can change rewards APY for each cycle

```
function updateCycleDistribution(
    uint256 DAYS8,
    uint256 DAYS28,
    uint256 DAYS90,
    uint256 DAYS369,
    uint256 DAYS888
) public onlyOwner {
    cyclePayoutDistribution = Cycles({
        DAYS8: DAYS8,
        DAYS28: DAYS28,
        DAYS90: DAYS90,
        DAYS369: DAYS369,
        DAYS888: DAYS888
    });
}
```

❖ Owner can enable/disable stake nft burn,nft minting,NFT transfers

```
function updateAllowBurn(bool value) public onlyOwner {
    allowBurn = value;
}

function updateMintingEnabled(bool value) public onlyOwner {
    mintingEnabled = value;
}

function updateTransferEnabled(bool value) public onlyOwner {
    transferEnabled = value;
}
```

❖ Owner can change the royalty fee

```
function updateRoyaltyFee(uint256 value) public onlyOwner {
    royaltyFee = value;
}
```

Audit conclusion

RugFreeCoins team has performed in-depth testing, line-by-line manual code review, and automated audit of the smart contract. The smart contract was analyzed mainly for common smart contract vulnerabilities, exploits, manipulations, and hacks. According to the smart contract audit.

Smart contract functional Status:	PASS
Smart contract security Status:	LOW ISSUE
Number of risk issues:	02
Solidity code functional issue level:	PASS
Number of owner privileges:	06
Centralization risk correlated to the active owner:	HIGH
Smart contract active ownership:	ACTIVE