



RugFreeCoins Audit



White Shiba Token

Smart Contract Security Audit

July 12, 2021

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Audit details



Audited project

White Shiba Token



Contract Address

0xa409f482227cb5cbd98eb3c1baf2f94dbf10d3a2



Client contact

White Shiba Team



Blockchain

Ethereum Smart Chain



Project website

<https://whiteshiba.io/>

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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Background

Rugfreecoins was commissioned by White Shiba to perform an audit of the smart contract.

<https://etherscan.io/address/0xa409f482227cb5cbd98eb3c1baf2f94dbf10d3a2>

The focus of this audit is to verify 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, long term sustainability and as a guide to improve the security posture of the smart contract by remediating the issues that were identified.

About the project

WSHIBA is a decentralized, community-owned ERC-20 token. It launched May 15th, 2021 and was soon soft rugged by the original dev. 58% of the LP was burned, and the ownership was renounced. However, instead of euthanizing this project, the community stepped up to take over the project.

The project is more community-oriented, where the community itself makes decisions together adding utility to the token and the ecosystem.

Tokenomics

- 2% of trade goes to holders pockets.

Roadmap

PHASE 1: LAUNCH

- ✓ Website Launch
- ✓ Contract Deployed
- ✓ 50% Supply Burned
- ✓ Ownership Renounced
- ✓ 1,000 Holders
- ✓ 1,000 Telegram Members
- ✓ Community Marketing Fund

PHASE 2: GROWTH

- ✓ CoinGecko Listing
- ✓ CoinMarketCap Listing
- ✓ WSHIBA staking
- ✓ Marketing Campaign
- ✓ Website Reconstructed

PHASE 3: EXPANSION

- ✓ CEX Listing
- ✓ Massive Marketing Campaign
- ✓ Charity giveaway
- ✓ Partnership with another project that has the same values as us

PHASE 4: UTILITY

- ✓ 2 more CEX Listing
- ✓ Marketing campaign in order to increase holders, TG members and Twitter followers
- ✓ NFT Campaign

Target market and the concept

Target market

- Anyone who's ready to actively take part with the token and ecosystem development process.
- Anyone who's interested in Crypto space with long term investment plans.
- Anyone who's ready to earn a passive income by holding tokens.
- Anyone who's interested in trading tokens.

Core concept

Still, the project is in the seeding stage, and decisions are yet to be made for the future of the project. Currently, White Shiba is a project that enables anyone to make trades and use it as currency pair for any financial purpose.

Community-driven

The project was fully taken over by the community, and they are collectively making collaborative decisions. Everyone in the community has a voice over the decisions they make, which has great diversity and that enables them to make optimal decisions for the project's future.

Potential to grow with score points

1.	Project efficiency	6/10
2.	Project uniqueness	6/10
3	Information quality	7/10
4	Service quality	7/10
5	System quality	7/10
6	Impact on the community	8/10
7	Impact on the business	6/10
8	Preparing for the future	5/10
Total Points		6.5/10

Contract details

Token contract details for 12th July 2021

Contract name	White Shiba
Contract address	0xa409f482227cb5cbd98eb3c1baf2f94dbf10d3a2
Token supply	100,000,000,000,000,000
Token ticker	WSHIBA
Decimals	9
Token holders	793
Transaction count	3,483
Top 100% holders dominance	93.82%
Contract deployer address	0xb27e0081e7bc1467e75578d1f86943ebbf70f843
Contract's current owner address	0x00

Top token holders

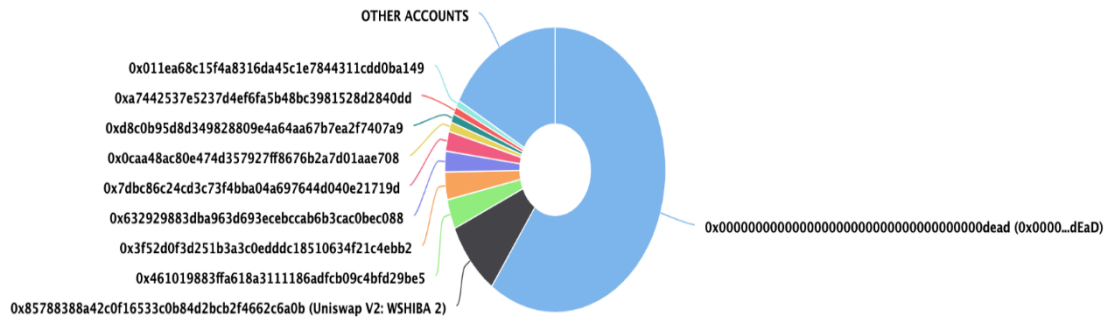
Top 10 Token Holders – 12th July 2021

The top 10 holders collectively own 83.08% (83,077,794,624,729,200.00 Tokens) of White Shiba

Token Total Supply: 100,000,000,000,000.00 Token | Total Token Holders: 791

White Shiba Top 10 Token Holders

Source: Etherscan.io

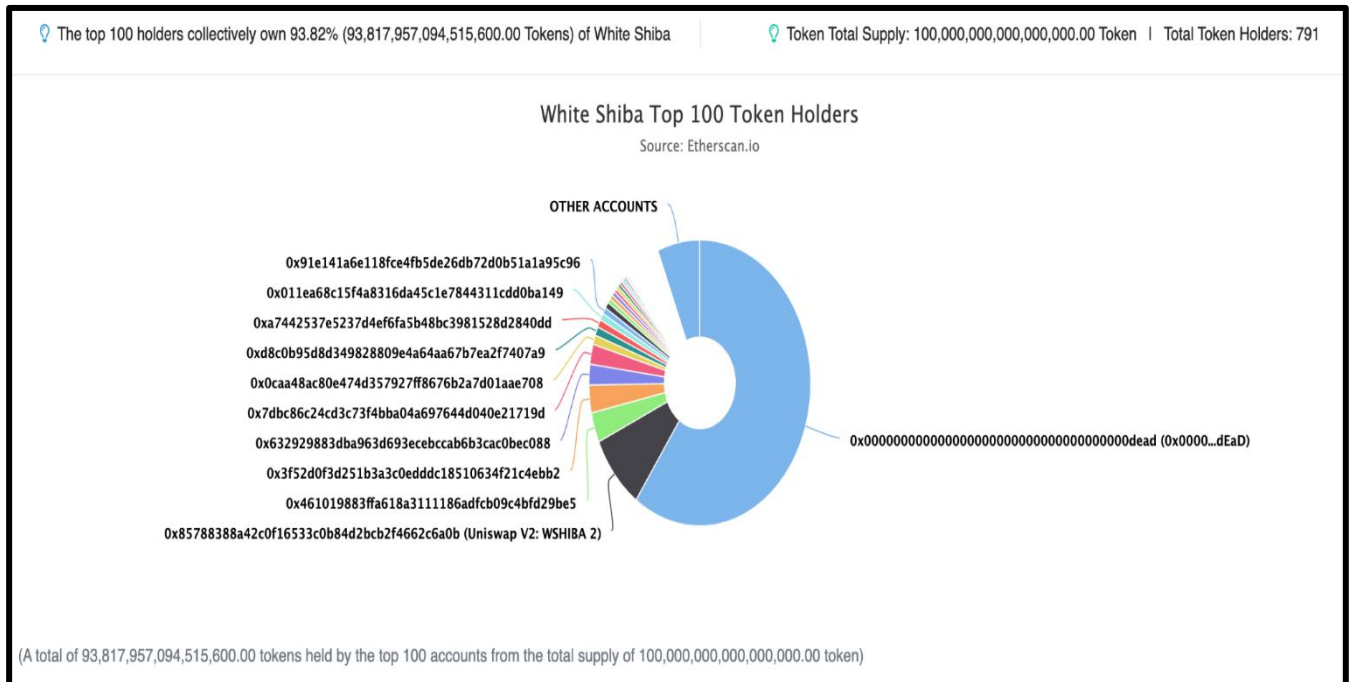


(A total of 83,077,794,624,729,200.00 tokens held by the top 10 accounts from the total supply of 100,000,000,000,000.00 token)

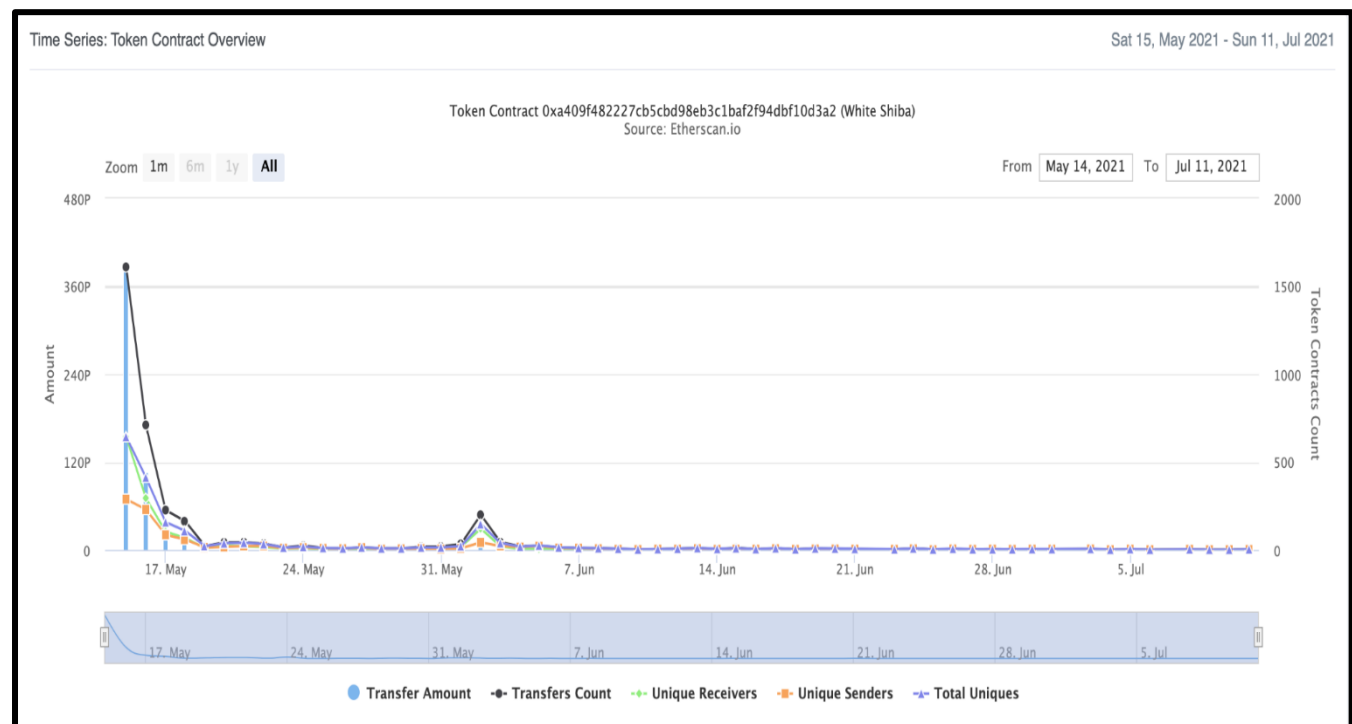
Rank	Address	Quantity (Token)	Percentage
1	0x0000...dEaD	59,758,551,307,847,100.494969818	59.7586%
2	Uniswap V2: WSHIBA 2	8,496,495,421,226,830.383337084	8.4965%
3	0x461019883ffa618a3111186adfc09c4bfd29be5	3,383,553,613,361,150.221561736	3.3836%
4	0x3f52d0f3d251b3a3c0edddc18510634f21c4ebb2	3,131,302,091,490,220.744509712	3.1313%
5	0x632929883dba963d693ececabb6b3cac0bec088	2,329,586,227,038,270.46439808	2.3296%
6	0x7dbc86c24cd3c73f4bba04a697644d040e21719d	2,272,481,817,377,660.561066844	2.2725%
7	0x0caa48ac80e474d357927ff8676b2a7d01aae708	1,039,581,928,325,550.346482304	1.0396%
8	0xd8c0b95d8d349828809e4a64aa67b7ea2f7407a9	990,079,880,906,555.555165312	0.9901%
9	0xa7442537e5237d4ef6fa5b48bc3981528d2840dd	882,397,908,677,429.104674638	0.8824%
10	0x011ea68c15f4a8316da45c1e7844311cdd0ba149	793,764,428,478,343.983971191	0.7938%

Token distribution

Top 100 Token Holders



Contract interaction details



































































Contract code function details





























No	Category	Item	Result
1	Coding conventions	BRC20 Token standards	pass
		compile errors	pass
		Compiler version security	pass
		visibility specifiers	pass
		Gas consumption	low issues
		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
		Selfdestruct function security	pass
3	Business security	Access control of owners	pass
		Business logics	pass
		Business implementations	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



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 its visibility and mutability.

Contract	Type	Bases		
L	Function Name	Visibility	Mutability	Modifiers
Context	Implementation			
L	_msgSender	Internal 		
L	_msgData	Internal 		
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 
SafeMath	Library			
L	add	Internal 		
L	sub	Internal 		
L	sub	Internal 		
L	mul	Internal 		
L	div	Internal 		
L	div	Internal 		
L	mod	Internal 		

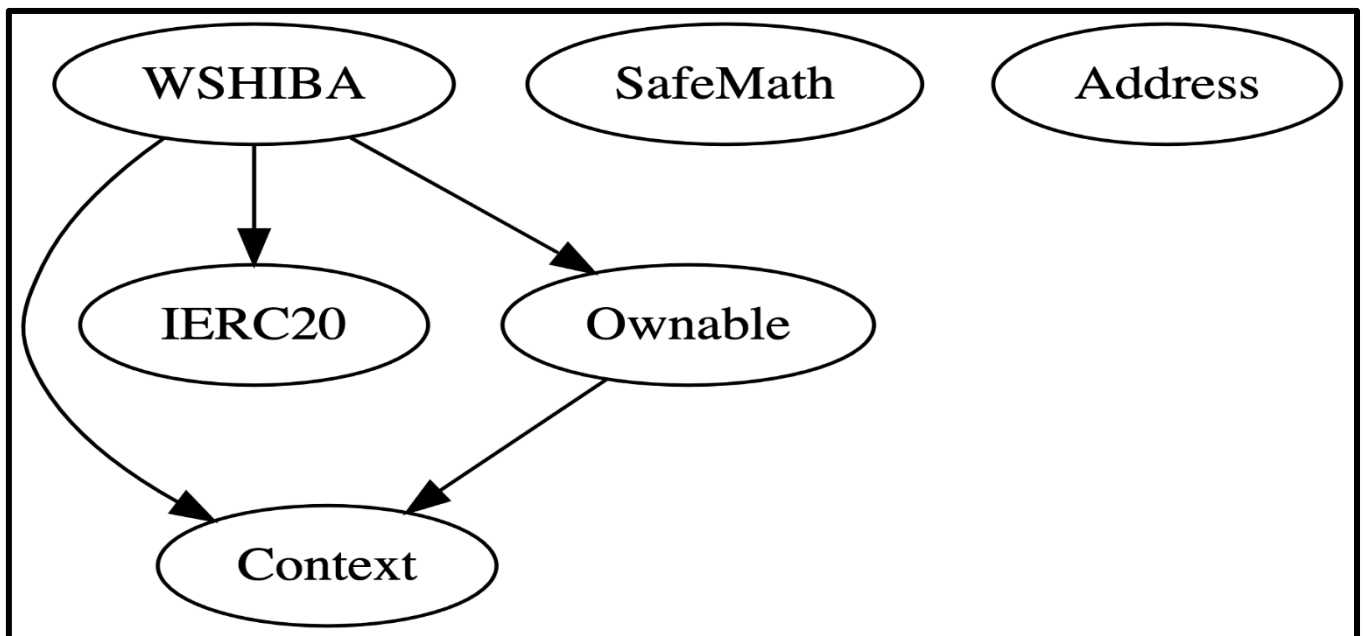
L	mod	Internal 		
Address	Library			
L	isContract	Internal 		
L	sendValue	Internal 		
L	functionCall	Internal 		
L	functionCall	Internal 		
L	functionCallWithValue	Internal 		
L	functionCallWithValue	Internal 		
L	_functionCallWithValue	Private 		
Ownable	Implementation	Context		
L		Internal 		
L	owner	Public 		NO 
L	renounceOwnership	Public 		onlyOwner
L	transferOwnership	Public 		onlyOwner
WSHIBA	Implementation	Context, IERC20, Ownable		
L		Public 		NO 
L	name	Public 		NO 
L	symbol	Public 		NO 
L	decimals	Public 		NO 
L	totalSupply	Public 		NO 
L	balanceOf	Public 		NO 
L	transfer	Public 		NO 
L	allowance	Public 		NO 

L	approve	Public !		NO!
L	transferFrom	Public !		NO!
L	increaseAllowance	Public !		NO!
L	decreaseAllowance	Public !		NO!
L	isExcluded	Public !		NO!
L	totalFees	Public !		NO!
L	setMaxTxPercent	External !		onlyOwner
L	rescueFromContract	External !		onlyOwner
L	reflect	Public !		NO!
L	reflectionFromToken	Public !		NO!
L	tokenFromReflection	Public !		NO!
L	excludeAccount	External !		onlyOwner
L	includeAccount	External !		onlyOwner
L	_approve	Private 		
L	_transfer	Private 		
L	_transferStandard	Private 		
L	_transferToExcluded	Private 		
L	_transferFromExcluded	Private 		
L	_transferBothExcluded	Private 		
L	_reflectFee	Private 		
L	_getValues	Private 		
L	_getTValues	Private 		
L	_getRValues	Private 		
L	_getRate	Private 		
L	_getCurrentSupply	Private 		

Legend

Symbol	Meaning
	Function can modify state
	Function is payable

Inheritance Hierarchy



Security issue checking status

❖ High severity issues

No high severity issues found.

❖ Medium severity issues

No medium severity issues found.

❖ Low severity issues

1. Out of gas

- The function `_getCurrentSupply` also uses the loop for evaluating total supply. It also could be aborted with `OUT_OF_GAS` exception if there will be a long-excluded addresses list.

```
ftrace | funcSig
function _getCurrentSupply() private view returns (uint256, uint256) {
    uint256 rSupply = _rTotal;
    uint256 tSupply = _tTotal;
    for (uint256 i = 0; i < _excluded.length; i++) {
        if (
            _rOwned[_excluded[i]] > rSupply ||
            _tOwned[_excluded[i]] > tSupply
        ) return (_rTotal, _tTotal);
        rSupply = rSupply.sub(_rOwned[_excluded[i]]);
        tSupply = tSupply.sub(_tOwned[_excluded[i]]);
    }
    if (rSupply < _rTotal.div(_tTotal)) return (_rTotal, _tTotal);
    return (rSupply, tSupply);
}
```

Recommendation

Check that the excluded array length is not too big.

Owner privileges

Ownership has been renounced and the owner doesn't have any privileges and has no authority to make any changes now.

Ownership privileges owner had

- ❖ Owner can transfer the ownership.

```
ftrace | funcSig
function transferOwnership(address newOwner↑) public virtual onlyOwner {
    require(
        newOwner↑ != address(0),
        "Ownable: new owner is the zero address"
    );
    emit OwnershipTransferred(_owner, newOwner↑);
    _owner = newOwner↑;
}
```

- ❖ Owner can renounce the ownership.

```
ftrace | funcSig
function renounceOwnership() public virtual onlyOwner {
    emit OwnershipTransferred(_owner, address(0));
    _owner = address(0);
}
```

- ❖ Owner can transfer full contract balance to his account.

```
ftrace | funcSig
function rescueFromContract() external onlyOwner {
    address payable _owner = msgSender();
    _owner.transfer(address(this).balance);
}
```

- ❖ Owner can change maximum transaction amount.

```
ftrace | funcSig
function setMaxTxPercent(uint256 maxTxPercent↑) external onlyOwner() {
    _maxTxAmount = _tTotal.mul(maxTxPercent↑).div(10**2);
}
```


Audit conclusion

While conducting the audit of the White Shiba smart contract, it was observed that there is nothing alarming with the code and the contract only contains low severity issues.

Liquidity locking details can be found through the below link.

<https://etherscan.io/tx/0x48c098be4cd28aee456d775dd041dc986af8b2fe7f55d565ccd919a7fff41414>