



RUGFREECOINS



X-Files Token

RugfreeCoins Verified on February 02nd, 2024

Overview

- ✓ No mint function found, the owner cannot mint tokens after initial deployment.
- ✓ The owner can't set a max transaction limit
- ✓ The owner can't pause trading once it's enabled
- ✓ The owner can't change fees.
- ✓ The owner can't blacklist wallets.
- ✓ The owner can't set a max wallet limit
- ✓ The owner can't claim the contract's balance of its own token.

Contents

Overview.....	2
Contents.....	3
Audit details.....	4
Disclaimer.....	5
Background.....	6
Tokenomics.....	7
Target market and the concept.....	8
Potential to grow with score points.....	9
Contract details.....	10
Contract code function details.....	11
Contract description table.....	12
Inheritance Hierarchy.....	15
Security issue checking status.....	16
Owner privileges.....	18
Audit conclusion.....	19

Audit details



Audited project
X-Files Token



Contract Address
0x28b28dDA85c60E3397933Ea50ED3522Bb25487aB



Client contact
X-Files Token Team



Blockchain
Binance Smart chain



Project website
<https://x-file.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.**

❗ DISCLAIMER

By reading this report or any part of it, you agree to the terms of this disclaimer. If you do not agree to the terms, then please immediately cease reading this report, and delete and destroy any and all copies of this report downloaded and/or printed by you. **This report is provided for information purposes only and on a non-reliance basis, and does not constitute investment advice.** No one shall have any right to rely on the report or its contents, and **RugfreeCoins and its affiliates (including holding companies, shareholders, subsidiaries, employees, directors, officers and other representatives) (RugfreeCoins) owe no duty of care towards you or any other person**, nor does RugfreeCoins make any warranty or representation to any person on the accuracy or completeness of the report.

The report is provided "as is", without any conditions, warranties or other terms of any kind except as set out in this disclaimer, and RugfreeCoins hereby excludes all representations, warranties, conditions and other terms (including, without limitation, the warranties implied by law of satisfactory quality, fitness for purpose and the use of reasonable care and skill) which, but for this clause, might have effect in relation to the report. Except and only to the extent that it is prohibited by law, RugfreeCoins hereby excludes all liability and responsibility, and neither you nor any other person shall have any claim against RugfreeCoins, for any amount or kind of loss or damage that may result to you or any other person (including without limitation, any direct, indirect, special, punitive, consequential or pure economic loss or damages, or any loss of income, profits, goodwill, data, contracts, use of money, or business interruption, and whether in delict, tort (including without limitation negligence), contract, breach of statutory duty, misrepresentation (whether innocent or negligent) or otherwise under any claim of any nature whatsoever in any jurisdiction) in any way arising from or connected with this report and the use, inability to use or the results of use of this report, and any reliance on this report.

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 **X-Files Token Team** to perform an audit of the smart contract.

<https://bscscan.com/address/0x28b28dDA85c60E3397933Ea50ED3522Bb25487aB>

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.

Tokenomics

▲ 1.25% tax when buying

1.25% of trade goes to the tax wallet in tokens












▲ 2.75% tax when selling

2.75% of trade goes to the tax wallet in tokens

Target market and the concept

- ▶ Anyone who's interested in the 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.
- ▶ Anyone who's interested in taking part in the X-Files token ecosystem.
- ▶ Anyone who's interested in taking part in the future plans of X-Files Token.
- ▶ Anyone who's interested in making financial transactions with any other party X-Files Token as the currency.

Potential to grow with score points

 Project efficiency	8 / 10
 Project uniqueness	8 / 10
 Information quality	8 / 10
 Service quality	8 / 10
 System quality	8 / 10
 Impact on the community	8 / 10
 Impact on the business	9 / 10
 Preparing for the future	8 / 10
 Smart contract security	10 / 10
 Smart contract functionality assessment	10 / 10
 Total Score	8.5 / 10

Contract details

Token contract details for 2nd of February 2024




















Contract name	X-FILE
Contract address	0x28b28dDA85c60E3397933Ea50ED3522Bb25487aB
Token supply	5,000,000,000
Token ticker	X-FILE
Decimals	18
Token holders	1
Transaction count	1
Contract deployer address	0x00000564b1501F7Ef5aDe6B874143bca2bDf1643
Contract's current owner address	0x5705A2Ec0c4aeB18703D0dC9E13499C31469404B
Tax receiver wallet 01	0xf8C784acFA83502e250c60a7136047a7a1A1054B
Tax receiver wallet 02	0x5738889a33cf20263904ad19359c97108A4862E4




















Contract code function details


















Nº	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 ▾
2	Function call audit	Overriding variables	PASS ▾
		Authorization of function call	PASS ▾
		Low level function (call/delegate call) security	PASS ▾
		Returned value security	PASS ▾
3	Business security & centralisation	Self destruct function security	PASS ▾
		Access control of owners	PASS ▾
		Business logics	PASS ▾
4	Integer overflow/underflow	Business implementation	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
IERC20Errors	Interface			
IERC721Errors	Interface			
IERC1155Errors	Interface			
Context	Implementation			
L	_msgSender	Internal 		
L	_msgData	Internal 		
L	_contextSuffixLength	Internal 		
Ownable	Implementation	Context		
L		Public 		NO 
L	owner	Public 		NO 
L	_checkOwner	Internal 		
L	renounceOwnership	Public 		onlyOwner
L	transferOwnership	Public 		onlyOwner
L	_transferOwnership	Internal 		
IERC20	Interface			
L	totalSupply	External 		NO 
L	balanceOf	External 		NO 

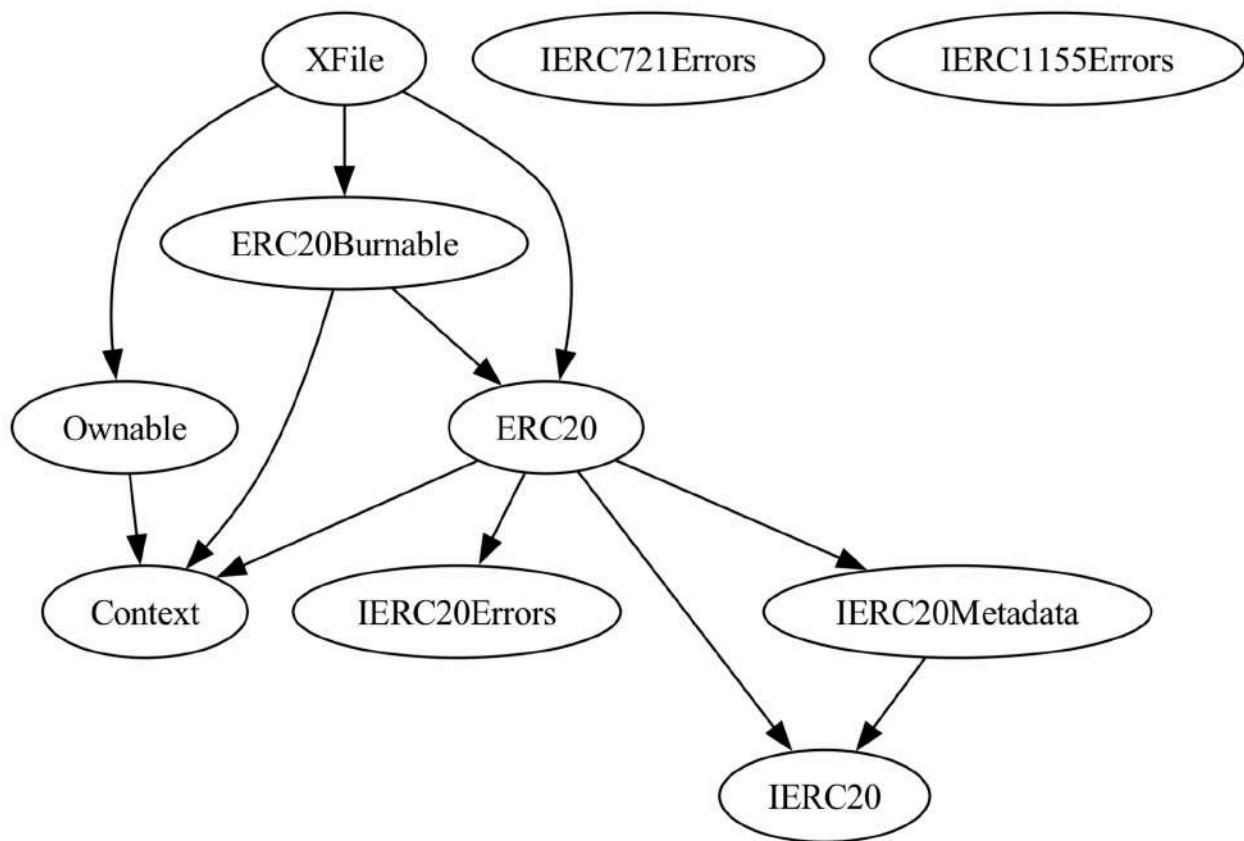
L	transfer	External !		NO !
L	allowance	External !		NO !
L	approve	External !		NO !
L	transferFrom	External !		NO !
IERC20Metadata	Interface	IERC20		
L	name	External !		NO !
L	symbol	External !		NO !
L	decimals	External !		NO !
ERC20	Implementation	Context, IERC20, IERC20 Metadata, IERC20 Errors		
L		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	_transfer	Internal 		
L	_update	Internal 		
L	_mint	Internal 		
L	_burn	Internal 		
L	_approve	Internal 		
L	_approve	Internal 		

L	_spendAllowance	Internal 		
ERC20Burnable	Implementation	Context, ERC20		
L	burn	Public 		NO 
L	burnFrom	Public 		NO 
XFile	Implementation	ERC20, ERC20Burnable, Ownable		
L		Public 		ERC20 Ownable
L	setDexPair	External 		onlyOwner
L	burn	Public 		NO 
L	_update	Internal 		

Legend

Symbol	Meaning
	Function can modify state
	Function is payable

Inheritance Hierarchy



Security issue checking status

❖ High severity issues

The owner can enable/disable the anti-whale feature at any time and can change the anti-whale threshold up to 1 token. By utilizing these two functions, the owner can effectively halt all sell **Fixed**

```
function toggleAntiWhale() external onlyRole(DEFAULT_ADMIN_ROLE) {
    isAntiWhaleEnabled = !isAntiWhaleEnabled;
    emit AntiWhaleToggled(isAntiWhaleEnabled);
}

function setAntiWhaleThreshold(uint256 _antiWhaleThreshold) external
onlyRole(DEFAULT_ADMIN_ROLE) {
    antiWhaleThreshold = _antiWhaleThreshold * 10 ** decimals();
    emit AntiWhaleThresholdUpdated(_antiWhaleThreshold);
}
```

❖ Medium severity issues

No medium severity issues found

❖ Low severity issues

When the owner excludes wallets from tax, they can pass any number of wallet arrays without any limitations. If the owner enters a very large wallet array, this function might fail due to the block gas limit. **Fixed**

```
function setExcludedFromTax(address[] calldata _addresses, bool _excluded)
external onlyRole(DEFAULT_ADMIN_ROLE) {
    for (uint256 i = 0; i < _addresses.length; i++) {
        require(_addresses[i] != address(0), "Address cannot be zero address");
        isExcludedFromTax[_addresses[i]] = _excluded;
    }
    emit ExcludedFromTaxUpdated(_addresses, _excluded);
}
```


When the owner adds new pairs, the owner can pass any number of address arrays without any limitations. If the owner enters a very large address array, this function might fail due to the block gas limit. Fixed

```
function setDexPair(address[] calldata _addresses, bool _dexPair) external
onlyRole(DEFAULT_ADMIN_ROLE) {
    for (uint256 i = 0; i < _addresses.length; i++) {
        require(_addresses[i] != address(0), "Address cannot be zero address");
        isDexPair[_addresses[i]] = _dexPair;
    }
    emit DexPairUpdated(_addresses, _dexPair);
}
```

Owner privileges

- ❖ The owner can add/remove new pairs

```
function setDexPair(address[] calldata _addresses, bool _dexPair) external  
onlyRole(DEFAULT_ADMIN_ROLE) {  
    for (uint256 i = 0; i < _addresses.length; i++) {  
        require(_addresses[i] != address(0), "Address cannot be zero address");  
        isDexPair[_addresses[i]] = _dexPair;  
    }  
    emit DexPairUpdated(_addresses, _dexPair);  
}
```

- ❖ Anyone can burn tokens from their wallets

```
function burn(uint256 amount) public override {  
    address sender = _msgSender();  
    uint256 senderBalance = balanceOf(sender);  
    require(senderBalance >= amount, "ERC20: burn amount exceeds balance");  
    _burn(sender, amount);  
}
```

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:	NONE ▾
Number of risk issues:	NONE ▾
Solidity code functional issue level:	PASS ▾
Number of owner privileges:	02
Centralization risk correlated to the active owner:	HIGH ▾
Smart contract active ownership:	ACTIVE ▾