



**TechRate**

AUDIT COMPANY

# Smart Contract Security Audit

TechRate

October, 2021

# Audit Details



Audited project  
**Xchain Wallet**



Deployer address  
**0x4e27196505160475250b2bcda735804ec7dae68a**



Client contacts:  
**Xchain Wallet team**



Blockchain  
**Binance Smart Chain**



Project website:  
<https://xchainwallet.com/>

# 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 below 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

TechRate was commissioned by Xchain Wallet to perform an audit of smart contracts:

<https://bscscan.com/address/0x5060FcF7d8062CC558bae4187E39f793BfFE0F8B#code>

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.

# Contracts Details

## Token contract details for 25.10.2021

Contract name	Xchain Wallet
Contract address	0x5060FcF7d8062CC558bae4187E39f793BfFE0F8B
Total supply	978,472,000,000
Token ticker	XWALL
Decimals	0
Token holders	30,448
Transactions count	64,823
Top 100 holders dominance	100.88%
Contract deployer address	0x4e27196505160475250b2bcda735804ec7dae68a
Contract's current owner address	0x4e27196505160475250b2bcda735804ec7dae68a

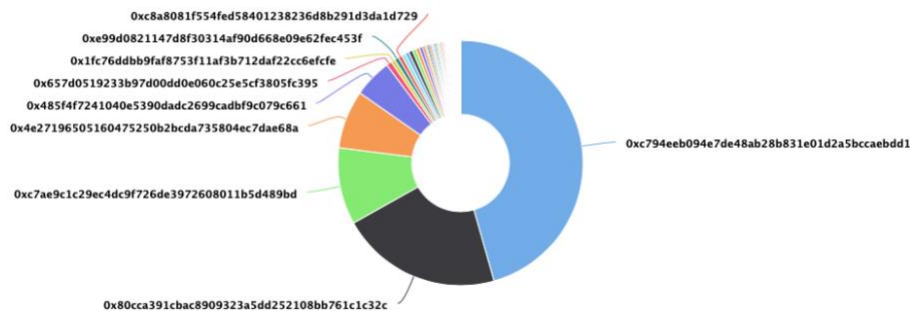
# Xchain Wallet Token Distribution

The top 100 holders collectively own 100.88% (987,047,480,700.00 Tokens) of Xchain Wallet

Token Total Supply: 978,472,000,000.00 Token | Total Token Holders: 30,449

Xchain Wallet Top 100 Token Holders

Source: BscScan.com



(A total of 987,047,480,700.00 tokens held by the top 100 accounts from the total supply of 978,472,000,000.00 token)

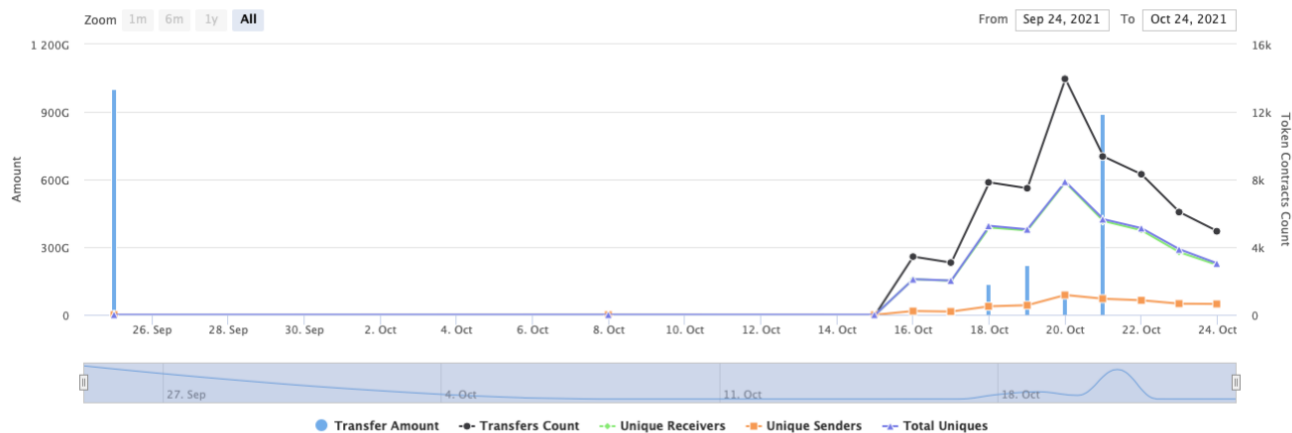
# Xchain Wallet Contract Interaction Details

Time Series: Token Contract Overview

Sat 25, Sept 2021 - Sun 24, Oct 2021

Token Contract 0x5060FcF7d8062CC558bae4187E39f7938FFe0F88 (Xchain Wallet)

Source: BscScan.com





# Xchain Wallet Top 10 Token Holders

Rank	Address	Quantity (Token)	Percentage
1	<a href="#">0xc794eeb094e7de48ab28b831e01d2a5bccaebdd1</a>	450,000,000,000	45.9901%
2	<a href="#">0x80cca391cbac8909323a5dd252108bb761c1c32c</a>	210,000,000,000	21.4620%
3	<a href="#">0xc7ae9c1c29ec4dc9f726de3972608011b5d489bd</a>	100,000,000,000	10.2200%
4	<a href="#">0x4e27196505160475250b2bcda735804ec7dae68a</a>	75,837,691,700	7.7506%
5	<a href="#">0x485f4f7241040e5390dad2699cadbf9c079c661</a>	50,000,000,000	5.1100%
6	<a href="#">0x657d0519233b97d00dd0e060c25e5cf3805fc395</a>	6,814,452,522	0.6964%
7	<a href="#">0x1fc76ddb9faf8753f11af3b712daf22cc6efcfe</a>	5,400,010,080	0.5519%
8	<a href="#">0xe99d0821147d8f30314af90d668e09e62fec453f</a>	5,365,142,744	0.5483%
9	<a href="#">0xc8a8081f554fed58401238236d8b291d3da1d729</a>	5,100,470,000	0.5213%
10	<a href="#">0x3b49125953be606e1030bb1c38e8f74de787c44f</a>	5,004,520,000	0.5115%



# Contract functions details

## + [Lib] SafeMath

- [Int] add
- [Int] sub
- [Int] mul
- [Int] div

## + ERC20Interface

- [Pub] totalSupply
- [Pub] balanceOf
- [Pub] allowance
- [Pub] transfer #
- [Pub] approve #
- [Pub] transferFrom #

## + ApproveAndCallFallback

- [Pub] receiveApproval #

## + Owned

- [Pub] <Constructor> #
- [Pub] transferOwnership #
  - modifiers: onlyOwner
- [Pub] acceptOwnership #

## + TokenERC20 (ERC20Interface, Owned)

- [Pub] <Constructor> #
- [Pub] totalSupply
- [Pub] balanceOf
- [Pub] transfer #
- [Pub] approve #
- [Pub] transferFrom #
- [Pub] allowance
- [Pub] approveAndCall #
- [Ext] <Fallback> (\$)

## + XWALL (TokenERC20)

- [Pub] getAirdrop #
- [Pub] tokenSale (\$)
- [Pub] viewAirdrop
- [Pub] viewSale
- [Pub] startAirdrop #
  - modifiers: onlyOwner
- [Pub] startSale #
  - modifiers: onlyOwner
- [Pub] setSaleActivation #
  - modifiers: onlyOwner
- [Pub] setAirdropActivation #
  - modifiers: onlyOwner
- [Pub] tran #
  - modifiers: onlyOwner
- [Pub] getBalance
  - modifiers: onlyOwner
- [Pub] txnToken #



- modifiers: onlyOwner
- [Ext] burn #
  - modifiers: onlyOwner
- [Int] \_burn #
- [Ext] <Fallback> (\$)

(\$) = payable function

# = non-constant function

# Issues Checking Status

Issue description	Checking status
1. Compiler errors.	Passed
2. Race conditions and Reentrancy. Cross-function race conditions.	Passed
3. Possible delays in data delivery.	Passed
4. Oracle calls.	Passed
5. Front running.	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 usage.	Passed
21. Fallback function security.	Passed

# Security Issues

## ✓ High Severity Issues

No high severity issues found.

## ✓ Medium Severity Issues

No medium severity issues found.

## ✓ Low Severity Issues

No low severity issues found.

## Owner privileges (In the period when the owner is not renounced)

- Owner can start airdrop.
- Owner can start sale.
- Owner can withdraw tokens and BNBs from the contract(Not an issue as this is the sale contract).
- Owner can change isSaleRunning and isAirdropRunning value.

# Conclusion

Smart contracts do not contain high severity issues!

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## ***TechRate 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 Owner.***



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