



# SMART CONTRACT SECURITY AUDIT

OmniaVerse (BLOCK Contract)

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Website: [soken.io](https://soken.io)

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# Disclaimer

This is a comprehensive report based on our automated and manual examination of cybersecurity vulnerabilities and framework flaws. We took into consideration smart contract based algorithms, as well. Reading the full analysis report is essential to build your understanding of project's security level. It is crucial to take note, though we have done our best to perform this analysis and report, that you should not rely on the our research and cannot claim what it states or how we created it. Before making any judgments, you have to conduct your own independent research. We will discuss this in more depth in the following disclaimer - please read it fully.

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Security analysis is based only on the smart contracts. No applications or operations were reviewed for security. No product code has been reviewed.

# Procedure

## Our analysis contains following steps:

### 1. Project Analysis;

### 2. Manual analysis of smart contracts:

- Deploying smart contracts on any of the network(Ropsten/Rinkeby) using Remix IDE
- Hashes of all transaction will be recorded
- Behaviour of functions and gas consumption is noted, as well.

### 3. Unit Testing:

- Smart contract functions will be unit tested on multiple parameters and under multiple conditions to ensure that all paths of functions are functioning as intended.
- In this phase intended behaviour of smart contract is verified.
- In this phase, we would also ensure that smart contract functions are not consuming unnecessary gas.
- Gas limits of functions will be verified in this stage.

### 4. Automated Testing:

- Mythril
- Oyente
- Manticore
- Solgraph

# Terminology

**We categorize the finding into 4 categories based on their vulnerability:**

- Low-severity issue — less important, must be analyzed
- Medium-severity issue — important, needs to be analyzed and fixed
- High-severity issue — important, might cause vulnerabilities, must be analyzed and fixed
- Critical-severity issue — serious bug causes, must be analyzed and fixed.

## Limitations

The security audit of Smart Contract cannot cover all vulnerabilities. Even if no vulnerabilities are detected in the audit, there is no guarantee that future smart contracts are safe. Smart contracts are in most cases safeguarded against specific sorts of attacks. In order to find as many flaws as possible, we carried out a comprehensive smart contract audit. Audit is a document that is not legally binding and guarantees nothing.

## Basic Security Recommendation

Unlike hardware and paper wallets, hot wallets are connected to the internet and store private keys online, which exposes them to greater risk. If a company or an individual holds significant amounts of cryptocurrency in a hot wallet, they should consider using MultiSig addresses. Wallet security is enhanced when private keys are stored in different locations and are not controlled by a single entity.

More info: <https://medium.com/coinmonks/guide-to-using-the-gnosis-multisig-wallet-eth-e76979741162>

# Token Contract Details for 16.08.2022

Contract Name: **BlockVerse**

Deployed address: **0xF130A35b721f3c03C09cEE402A3731349A4b503E**

Total Supply: **1,000,000,000**

Token Tracker: **BLOCK**

Decimals: **8**

Token holders: **785**

Transactions count: **2440**

Top 100 holders dominance: **97.56%**

## Audit Details



Project Name: **OmniaVerse**

Language: **Solidity**

Compiler Version: **v0.6.12**

Blockchain: **BSC**

# Social Profiles

Project Website: <https://omniaverse.io/>

Project Twitter: <https://twitter.com/omniaverse>

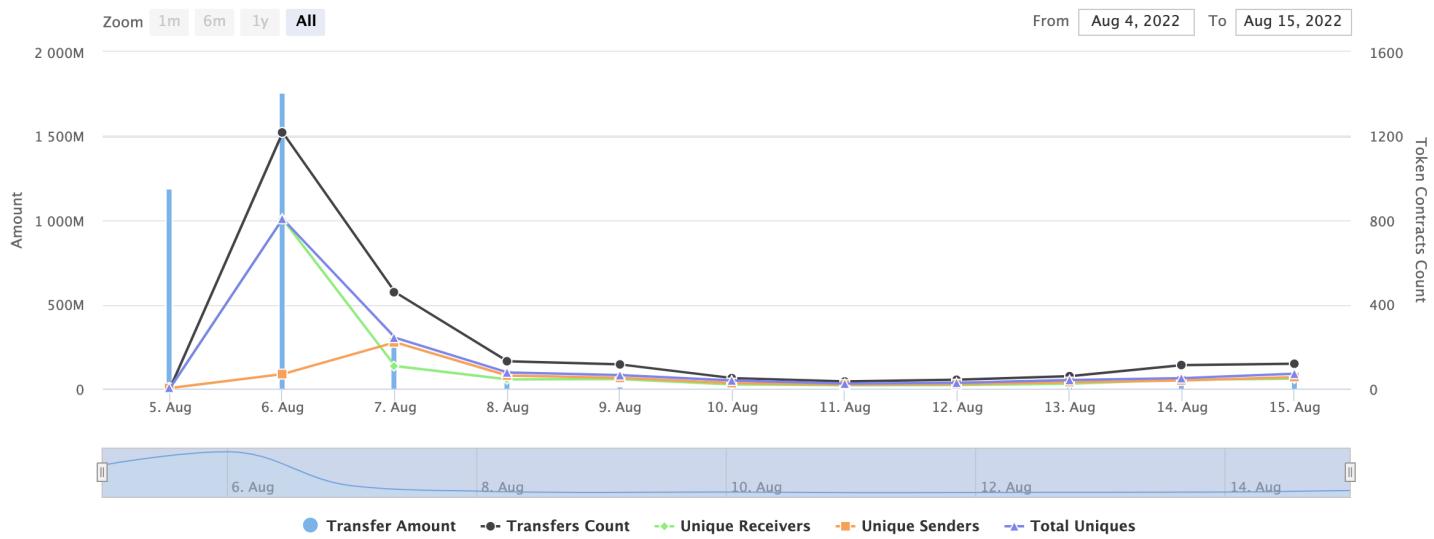
Project Telegram: <https://t.me/omniaverseOfficial>

Project Reddit: <https://www.reddit.com/r/omniaverseOfficial/>

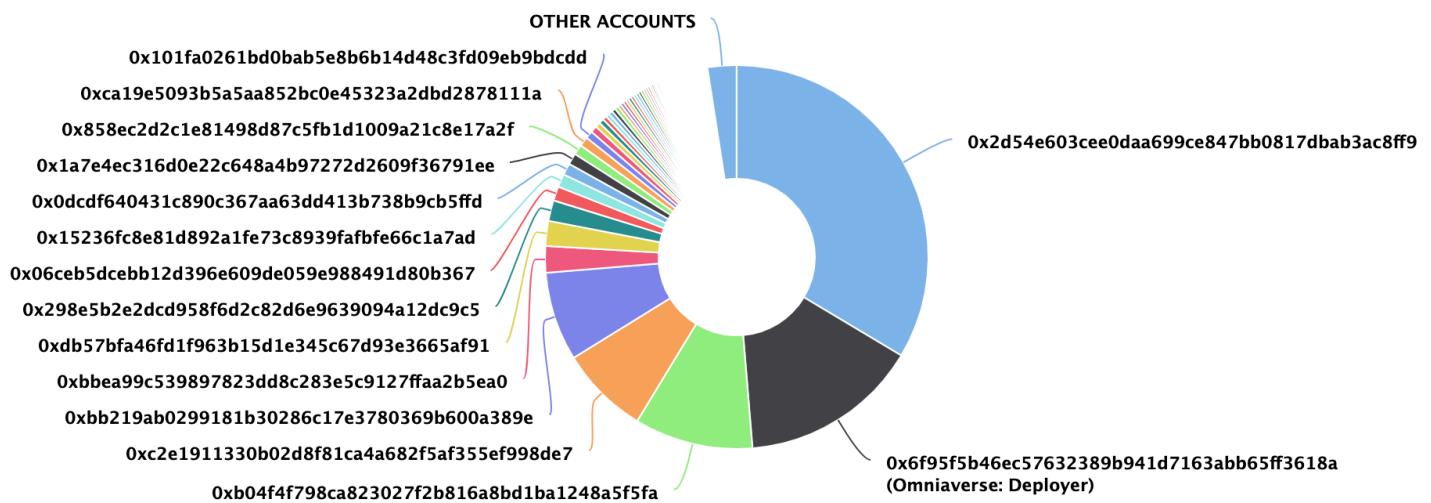
Project Medium: <https://medium.com/@Omniaverse>

Project Youtube: [https://www.youtube.com/watch?v=VSjaJXcn\\_Aw](https://www.youtube.com/watch?v=VSjaJXcn_Aw)

# Token Analytics



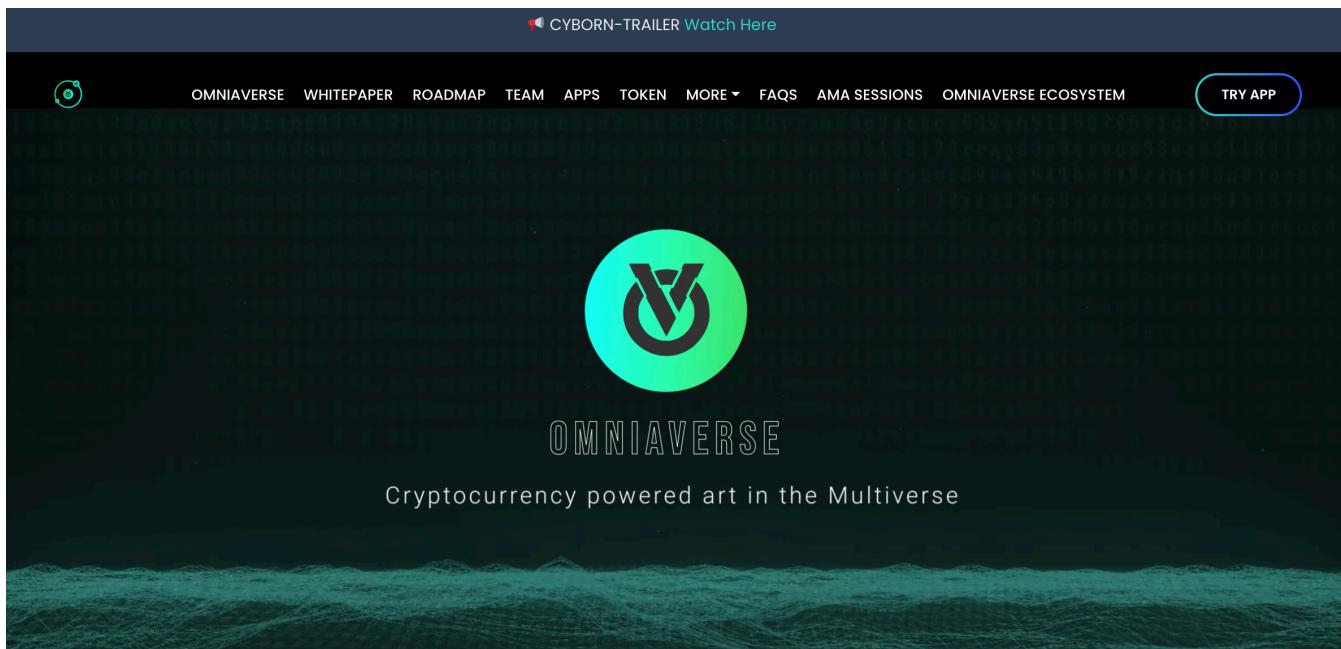
# BLOCK Token Distribution



## BLOCK Top 10 Holders

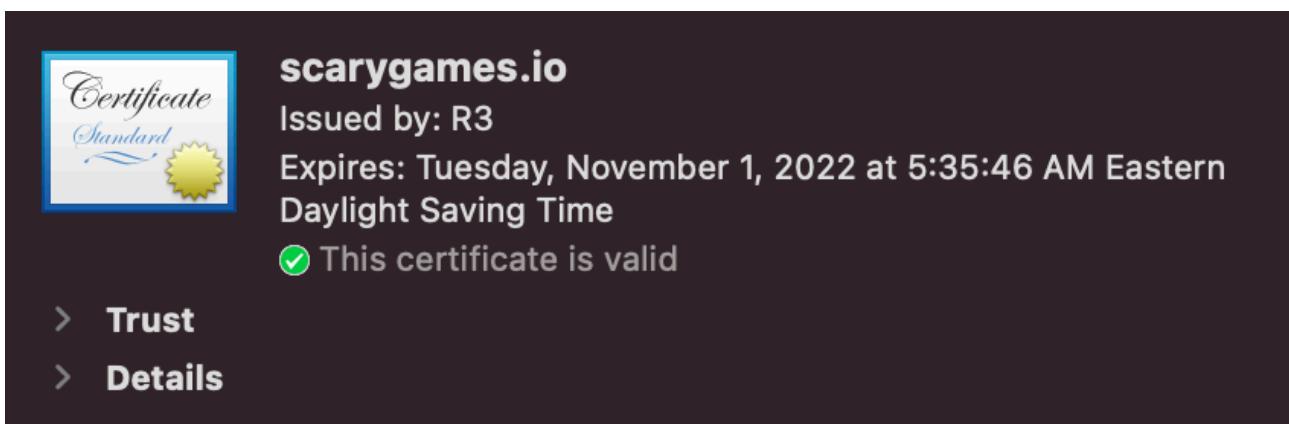
Rank	Address	Quantity (Token)	Percentage
1	0x2d54e603cee0daa699ce847bb0817dbab3ac8ff9	335,800,471	33.5800%
2	Omniaverse: Deployer	151,190,858.5	15.1191%
3	0xb04f4f798ca823027f2b816a8bd1ba1248a5f5fa	100,000,000	10.0000%
4	0xc2e1911330b02d8f81ca4a682f5af355ef998de7	75,000,804	7.5001%
5	0xbb219ab0299181b30286c17e3780369b600a389e	75,000,000	7.5000%
6	0xbbea99c539897823dd8c283e5c9127ffaa2b5ea0	22,256,756.2856389	2.2257%
7	0xdb57bfa46fd1f963b15d1e345c67d93e3665af91	21,030,612.49904442	2.1031%
8	0x298e5b2e2dcd958f6d2c82d6e9639094a12dc9c5	17,486,951.45324566	1.7487%
9	0x06ceb5dcebb12d396e609de059e988491d80b367	12,050,024.44	1.2050%
10	0x15236fc8e81d892a1fe73c8939fafbfe66c1a7ad	11,000,000.03806204	1.1000%

# Project Website Overview



- ✓ JavaScript errors hasn't been found.
- ✓ Malware pop-up windows hasn't been detected.
- ✓ No issues with loading elements, code, or stylesheets.

## Project Website SSL Certification



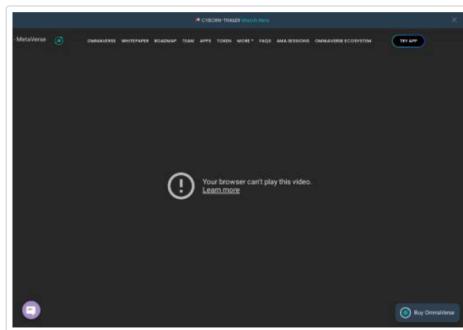
# Project Website Optimization for Desktop



## Performance

Values are approximate and subject to change. [The performance level is calculated](#) directly from these metrics. [Show calculator](#)

▲ 0–49   ■ 50–89   ● 90–100



## INDICATORS

[Expand](#)

### First Contentful Paint

**1.4 sec.**

### Speed Index

**4.7 sec.**

### Largest Contentful Paint

**1.4 sec.**

### Time to Interactive

**5.6 sec.**

### Total Blocking Time

**200ms**

### Cumulative Layout Shift

**0.025**

# Project Website Optimization for Mobile



## Performance

Values are approximate and subject to change. [The performance level is calculated](#) directly from these metrics. [Show calculator](#)

▲ 0–49   ■ 50–89   ● 90–100



## INDICATORS

### First Contentful Paint

**4.5 sec.**

**40.6 sec.**

### Speed Index

**16.3 sec.**

**1980 ms**

### Largest Contentful Paint

**41.4 sec.**

**0.051**

# Whitepaper of the project

The whitepaper of OmniaVerse project has been verified on behalf of Soken team.



Whitepaper link: <https://omniaverse.io/wp-content/uploads/2022/06/omniaverse.pdf>

# Contract Function Details

- [Int] \_msgSender
- [Int] \_msgData
- [Pub] owner
- [Pub] renounceOwnership
- [Pub] transferOwnership
- [Int] \_transferOwnership
- [Ext] totalSupply
- [Ext] decimals
- [Ext] symbol
- [Ext] name
- [Ext] getOwner
- [Ext] balanceOf
- [Ext] transfer
- [Ext] allowance
- [Ext] approve
- [Ext] transferFrom
- [Int] add
- [Int] sub
- [Int] sub
- [Int] mul
- [Int] div
- [Int] div
- [Int] mod
- [Int] mod
- [Int] min
- [Int] sqrt
- [Int] isContract
- [Int] sendValue
- [Int] functionCall
- [Int] functionCall
- [Int] functionCallWithValue
- [Int] functionCallWithValue
- [Prv] \_functionCallWithValue
- [Ext] getOwner
- [Pub] name
- [Pub] decimals
- [Pub] symbol
- [Pub] totalSupply
- [Pub] balanceOf
- [Pub] transfer
- [Pub] allowance
- [Pub] approve
- [Pub] transferFrom

- [Pub] increaseAllowance
- [Pub] decreaseAllowance
- [Pub] burn
- [Int] \_transfer
- [Int] \_mint
- [Int] \_burn
- [Int] \_approve
- [Int] \_burnFrom
- [Int] safeTransfer
- [Int] safeTransferFrom
- [Int] safeApprove
- [Int] safeIncreaseAllowance
- [Int] safeDecreaseAllowance
- [Prv] \_callOptionalReturn
- [Ext] name
- [Ext] symbol
- [Ext] decimals
- [Ext] totalSupply
- [Ext] balanceOf
- [Ext] allowance
- [Ext] approve
- [Ext] transfer
- [Ext] transferFrom
- [Ext] DOMAIN\_SEPARATOR
- [Ext] PERMIT\_TYPEHASH
- [Ext] nonces
- [Ext] permit
- [Ext] MINIMUM\_LIQUIDITY
- [Ext] factory
- [Ext] token0
- [Ext] token1
- [Ext] getReserves
- [Ext] price0CumulativeLast
- [Ext] price1CumulativeLast
- [Ext] kLast
- [Ext] swapFee
- [Ext] mint
- [Ext] burn
- [Ext] swap
- [Ext] skim
- [Ext] sync
- [Ext] initialize
- [Ext] setSwapFee
- [Ext] feeTo
- [Ext] feeToSetter

- [Ext] getPair
- [Ext] allPairs
- [Ext] allPairsLength
- [Ext] createPair
- [Ext] setFeeTo
- [Ext] setFeeToSetter
- [Ext] setSwapFee
- [Ext] factory
- [Ext] WETH
- [Ext] addLiquidity
- [Ext] addLiquidityETH
- [Ext] removeLiquidity
- [Ext] removeLiquidityETH
- [Ext] removeLiquidityWithPermit
- [Ext] removeLiquidityETHWithPermit
- [Ext] swapExactTokensForTokens
- [Ext] swapTokensForExactTokens
- [Ext] swapExactETHForTokens
- [Ext] swapTokensForExactETH
- [Ext] swapExactTokensForETH
- [Ext] swapETHForExactTokens
- [Ext] quote
- [Ext] getAmountOut
- [Ext] getAmountIn
- [Ext] getAmountsOut
- [Ext] getAmountsIn
- [Ext] removeLiquidityETHSupportingFeeOnTransferTokens
- [Ext] removeLiquidityETHWithPermitSupportingFeeOnTransferTokens
- [Ext] swapExactTokensForTokensSupportingFeeOnTransferTokens
- [Ext] swapExactETHForTokensSupportingFeeOnTransferTokens
- [Ext] swapExactTokensForETHSupportingFeeOnTransferTokens
- [Pub] updateSwapAndLiquify
- [Ext] setDevMarketingFee
- [Ext] setFundFee
- [Ext] setLiquidityFee
- [Ext] updateShares
- [Pub] updateSphynxSwapRouter
- [Pub] excludeFromFees
- [Pub] setFeeAccount
- [Pub] excludeMultipleAccountsFromFees
- [Pub] setAutomatedMarketMakerPair
- [Prv] \_setAutomatedMarketMakerPair
- [Pub] setNativeAmountToSwap
- [Pub] updateDevMarketingWallet
- [Ext] updateLiquidityWallet

- [Pub] updateFundWallet
- [Pub] setBlockNumber
- [Pub] updateMaxTxAmount
- [Pub] isExcludedFromFees
- [Int] \_transfer
- [Prv] swapTokens
- [Prv] addLiquidity
- [Prv] swapTokensForNative
- [Prv] sphynxBuyBackAndBurn
- [Int] \_getTokenAmountFromNative
- [Prv] transferNativeToDevMarketingWallet
- [Prv] transferNativeToFundWallet
- [Prv] transferNativeToSphynxWallet

# Vulnerabilities checking

Issue Description	Checking Status
Compiler Errors	Completed
Delays in Data Delivery	Completed
Re-entrancy	Completed
Transaction-Ordering Dependence	Completed
Timestamp Dependence	Completed
Shadowing State Variables	Completed
DoS with Failed Call	Completed
DoS with Block Gas Limit	Completed
Outdated Complier Version	Completed
Assert Violation	Completed
Use of Deprecated Solidity Functions	Completed
Integer Overflow and Underflow	Completed
Function Default Visibility	Completed
Malicious Event Log	Completed
Math Accuracy	Completed
Design Logic	Completed
Fallback Function Security	Completed
Cross-function Race Conditions	Completed
Safe Zeppelin Module	Completed

# Security Issues

## 1) Volatile Code:

The return values of functions

`swapExactTokensForETHSupportingFeeOnTransferTokens` and

`addLiquidityETH` are not properly handled.

### Recommendation:

We recommend using variables to receive the return value of the functions mentioned above and handle both success and failure cases if needed by the business logic.

## 2) Integer Overflow / Underflow

```
1587     sphynxSwapRouter.swapExactETHForTokensSupportingFeeOnTransferTokens{value: nativeAmount}(  
1588         0,  
1589         path,  
1590         address(this),  
1591         block.timestamp + 120  
1592     );
```

An overflow/underflow happens when an arithmetic operation reaches the maximum or minimum storage of a variable type. Integers overflow or underflow may prove fatal when during an arithmetic operation, the number goes over or under the designated limit. This may prove fatal during calculations related to ether or tokens.

### Recommendation:

Solidity compiler versions  $\geq 0.8.0$  automatically handle overflow and underflow validations. If you're using a lower solidity version, it is

recommended to use the SafeMath library to protect the arithmetic operations.

### 3) Owner Privileges

The contract contains ownership functionality and ownership is not renounced which allows the creator or current owner to modify contract behaviour (for example, mint new tokens).

# Conclusion

Low and medium-severity issues exist within smart contracts. Smart contracts are free from any critical or high-severity issues.

NOTE: Please check the disclaimer above and note, that audit makes no statements or warranties on business model, investment attractiveness or code sustainability.

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