TECH RATE

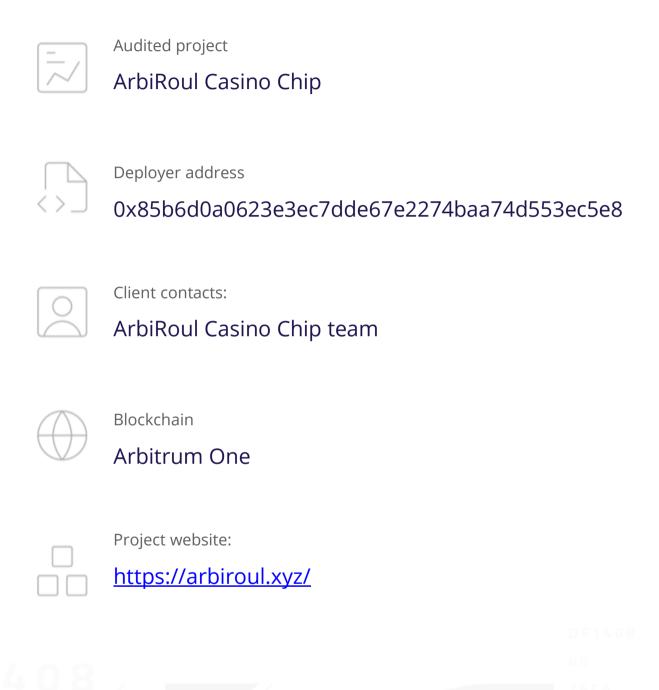
SMART CONTRACTS SECURITY **AUDIT REPORT**







Audit Details





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

TechRate was commissioned by ArbiRoul Casino Chip to perform an audit of smart contracts:

https://arbiscan.io/address/0xc7831178793868a75122EAaFF634ECe07a2ecAAA#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 28.02.2023

Contract name	ArbiRoul Casino Chip	
Contract address	0xc7831178793868a75122EAaFF634ECe07a2ecAAA	
Total supply	269,082,099.217604	
Token ticker	ROUL	
Decimals	18	
Token holders	1,042	
Transactions count	50,013	
Top 100 holders dominance	95.17%	
Fee denominator	100	
AutoLiquidity receiver	0x4ff8694c4e041f433f5c28b3564f728d544d2b69	
Casino address	0xc9bfa78fb87dc420aee26633e58230363017146e	
liquifyPair	0xb5ffc69bfe0388f3cf13d9ad4833ed32d283095b	
Contract deployer address	0x85b6d0a0623e3ec7dde67e2274baa74d553ec5e8	
Owner address	0x85b6d0a0623e3ec7dde67e2274baa74d553ec5e8	



ArbiRoul Casino Chip Token Distribution

The top 100 holders collectively own 95.17% (256,075,632.76 Tokens) of ArbiRoul Casino Chip

▼ Token Total Supply: 269,082,099.22 Token | Total Token Holders: 1,042

ArbiRoul Casino Chip Top 100 Token Holders
Source: arbiscan.io

OTHER ACCOUNTS

0x4ff8694c4e041f433f5c28b3564f728d544d2b69
0x62fc798d7a1924532c72511d132aeabd02f4fa30
0xa8a9c8b2afc8e25af8c4dc23a5ac26b4b0581df1
0x90eb36fef0ff125654b15f6904a0270c77c7ed8c

0xb5ffc69bfe0388f3cf13d9ad4833ed32d283095b

(A total of 256,075,632.76 tokens held by the top 100 accounts from the total supply of 269,082,099.22 token)

0x9eaec4d4296d3cd7c59847cdbf5c28c2c0ad0bc3

0xc7831178793868a75122eaaff634ece07a2ecaaa

ArbiRoul Casino Chip Top 10 Token Holders

Rank	Address	Quantity (Token)	Percentage
1		84,516,108.471952428711748641	31.4090%
2		27,291,662.248019516311903961	10.1425%
3	0xb5ffc69bfe0388f3cf13d9ad4833ed32d283095b	22,918,578.67863312473668075	8.5173%
4		7,437,905.812594156444943296	2.7642%
5	0x9eaec4d4296d3cd7c59847cdbf5c28c2c0ad0bc3	6,732,247.550660727005952807	2.5019%
6	0xa8a9c8b2afc8e25af8c4dc23a5ac26b4b0581df1	5,567,552	2.0691%
7	0x62fc798d7a1924532c72511d132aeabd02f4fa30	5,432,027.670334745134027344	2.0187%
8	0x7b626ac4137b7df2a457ffbd3debc0e7e052e760	5,214,372.07	1.9378%
9	0x50e76c482a6894aab2ff03e957acadd42a650ac9	4,850,739	1.8027%
10	0xd8cc834bb5b05f40fdb0d7d84d7478fb0f6e8519	4,699,367	1.7464%

ArbiRoul Casino Chip LP Token Holders

Rank	Address	Quantity	Percentage
1		36,529.414909708374648403	62.0982%
2	0x295581a13ff8e78b5a6ef9a0ec204a2ccd6cdf5a	19,296.7123871	32.8034%
3	0x4ac31127d2204d1f03d8bd634b57bdf5eabecec5	1,173.303136333472422459	1.9946%
4	⊕ 0x4ff8694c4e041f433f5c28b3564f728d544d2b69	464.303310803455432498	0.7893%
5	B SushiSwap: WethMaker	443.360746288112340026	0.7537%
6	⊕ 0xb0c3288ac68d9ea582ec75c083453adda9882aeb	218.908703715473710316	0.3721%
7	0x15a6142b9ce8610801d63e199dd2ebccddd1e289	80.771024141736365946	0.1373%
8	0xbbc8cfd2f1432f6203d640f1e0851c6748b37482	73.240946935609127519	0.1245%
9	0x10c3ee22369ac42cb380c0db58681f893686dc00	68.408958301725590957	0.1163%
10	■ 0x3425add66cbd9d0dd304c2a0c0b57717fb7b03c4	54.960266741055664191	0.0934%

408

65 76C6 5C780 29C4CAD8 C4 87C9C



Contract functions details

+ [Lib] SafeMath

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

+ [Int] IBEP20

- [Ext] totalSupply
- [Ext] decimals
- [Ext] symbol
- [Ext] name
- [Ext] getOwner
- [Ext] balanceOf
- [Ext] transfer #
- [Ext] allowance
- [Ext] approve #
- [Ext] transferFrom #

+ Auth

- [Pub] <Constructor> #
- [Pub] authorize #
 - modifiers: authorized
- [Pub] unauthorize #
 - modifiers: onlyOwner
- [Pub] isOwner
- [Pub] isAuthorized
- [Pub] transferOwnership #
 - modifiers: onlyOwner

+ Pausable (Auth)

- [Pub] <Constructor> #
- [Ext] pause #
 - modifiers: notPaused, authorized
- [Pub] unpause #
 - modifiers: when Paused, authorized
- [Int] _unpause #
- + [Int] IDEXFactory
 - [Ext] createPair #

- + [Int] IDEXRouter
 - [Ext] factory
 - [Ext] WETH
 - [Ext] addLiquidityETH (\$)
 - [Ext] swapExactETHForTokensSupportingFeeOnTransferTokens (\$)
 - [Ext] swapExactTokensForETHSupportingFeeOnTransferTokens #
- + CasinoChip (IBEP20, Auth, Pausable)
 - [Pub] <Constructor> #
 - modifiers: Auth, Pausable
 - [Ext] <Fallback> (\$)
 - [Ext] totalSupply
 - [Ext] decimals
 - [Ext] symbol
 - [Ext] name
 - [Ext] getOwner
 - [Ext] balanceOf
 - [Ext] allowance
 - [Pub] approve #
 - [Ext] approveMax #
 - [Ext] transfer #
 - [Ext] transferFrom #
 - [Ext] casinoPay #
 - modifiers: onlyCasino
 - [Ext] casinoTake #
 - modifiers: onlyCasino
 - [Int] mint #
 - [Int] _burn #
 - [Int] transferFrom #
 - modifiers: migrationProtection
 - [Int] checkTxLimit
 - [Int] takeFee #
 - [Int] getLiquidityFee
 - [Int] shouldAutoLiquify
 - [Int] autoLiquify #
 - modifiers: liquifying
 - [Int] launch #
 - [Ext] setTxLimit #
 - modifiers: authorized
 - [Ext] setLiquify #
 - modifiers: authorized
 - [Ext] migrateAutoLiquidityDEX #
 - modifiers: authorized
 - [Int] shouldTakeFee

- [Ext] setHasFee #
 - modifiers: authorized
- [Ext] setIsExempt #
 - modifiers: authorized
- [Ext] setFees #
 - modifiers: authorized
- [Ext] setFeeReceivers #
 - modifiers: authorized
- [Ext] setCasino #
 - modifiers: authorized
- [Ext] rescue #
 - modifiers: authorized

(\$) = payable function
= payable function

= non-constant function

1408

65 76C6 5C780 29C4CAD8 C4

D F

65

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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 1780
20.	Safe Open Zeppelin contracts implementation and usage.	Passed
21.	Fallback function security.	Passed

Security Issues

No high severity issues found.

Medium Severity Issues

No medium severity issues found.

No low severity issues found.

Notes:

Casino address can mint and burn tokens.

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

- Authorized address can authorize other addresses.
- Authorized address can change _maxTxAmount.
- Authorized address can change liquifyAmount and liquifyEnabled.
- Authorized address can change the liquidity router.
- Authorized address can include and exclude from fees.
- Authorized address can change the dev and liquidity fees.
- Authorized address can change dev and liquidity addresses.
- Authorized address can withdraw contract native tokens.
- Authorized address can change casino address.
- Casino address can mint and burn tokens.

Testnet deployment

Contracts Description Table

\$1

Function is payable

Contract	Туре	Bases		
L	Function Name	Visibility	Mutability	Modifiers
SafeMath	Library			
CasinoChip	Implementation	IBEP20, Auth, Pausable		
L	<u>approve</u>	Public 🛮		NO
L	<u>approveMax</u>	External .		NO
L	<u>transfer</u>	External !		NO
L	<u>transferFrom</u>	External !		NO
L	<u>casinoPay</u>	External !		onlyCasino
L	<u>casinoTake</u>	External [onlyCasino
L	<u>setTxLimit</u>	External [authorized
L	<u>setLiquify</u>	External [authorized
L	migrateAutoLiquidityDEX	External J		authorized
L	<u>setHasFee</u>	External J		authorized
L	<u>setIsExempt</u>	External J		authorized
L	<u>setFees</u>	External J		authorized
L	<u>setFeeReceivers</u>	External J		authorized
L	<u>setCasino</u>	External J		authorized
Legend				
	aning			
U Fur	nction can modify state			

Conclusion

Smart contracts do not contain high severity issues! Liquidity pair contract's security is not checked due to out of scope. The further transfers and operations with the funds raise are not related to this particular contract.

Liquidity locking details provided by the team: https://onlymoons.io/#/locker/arbitrum/90

Security score: 72.

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.