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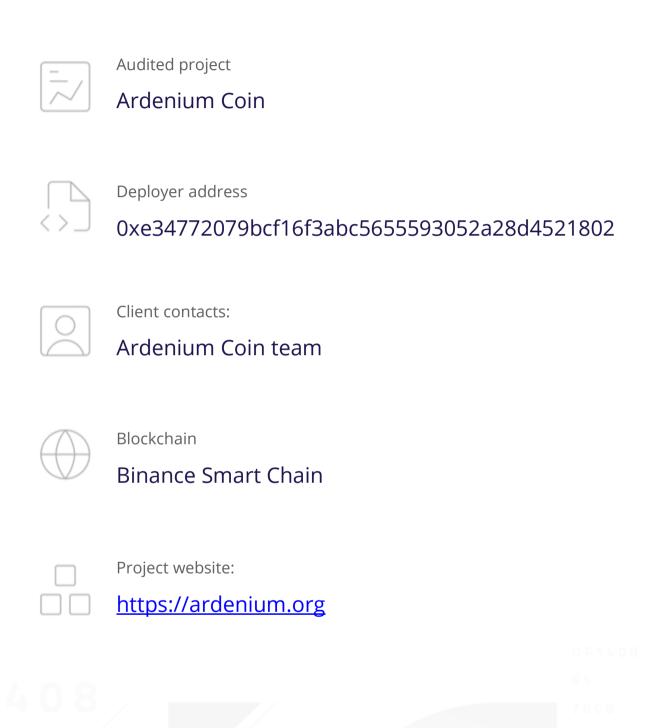
SMART CONTRACTS SECURITY **AUDIT REPORT**







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 Ardenium Coin to perform an audit of smart contracts:

https://bscscan.com/address/0x63cda616b9e5501b689394ae9c1bfa02b13513bc#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.



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.	Low issues
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.

No medium severity issues found.

- Low Severity Issues
 - 1. Equation issue

Issue:

• The function process_Tokens_Now() uses "==" operand instead of "=" to set percent_Of_Tokens_To_Process value to 100.

Recommendation:

Use the right operand.

Notes:

- Owner address is 0xe34772079BCf16f3aBc5655593052a28D4521802.
- The old Wallet_Dev address is not removed from the _isExcludedFromFee array.

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

- Owner can exclude from the fee.
- Owner can change fees.
- Owner can change Wallet Dev address.
- Owner can change swapAndLiquifyEnabled value.
- Owner can change swapTrigger.
- Owner can change noFeeToTransfer.
- Owner can change _maxTxAmount and _maxWalletToken.
- Owner can manually call swapAndLiquify.
- Owner can withdraw contract ERC20 tokens.
- Owner can change router and pair addresses.



Testnet deployment

Contracts Description Table

Contract	Type	Bases		
L	Function Name	Visibility	Mutability	Modifiers
ArdeniumCoin	Implementation	Context, IERC20, Ownable		
L	transfer	Public 🌡		NO
L	<u>set Fees</u>	External 🌡		only0wner
L	Wallet Update Dev	Public 🌡		only0wner
L	set Number Of Transactions Before Liquify Trigger	Public 🌡		only0wner
L	set Transfers Without Fees	External 🌡		only0wner
L	set Max Transaction Percent	External 🌡		only0wner
L	set Max Wallet Percent	External I		only0wner

Legend

Symbol Meaning

Function can modify state

Function is payable

Conclusion

Smart contracts contain low 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 are provided by the team:

https://app.uncx.network/amm/pancakev2/pair/0x50f218D94fd1D0154B426F18De03Ea45B6838AcE

Security score: 81.

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.