

# ARATA TOKEN AUDIT REPORT

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### **SUMMARY**

This report has been prepared for Arata to discover issues and vulnerabilities in the source code of the Arata project as well as any contract dependencies that were not part of an officially recognized library. A comprehensive examination has been performed, utilizing Static Analysis, Manual Review, and Testnet Deployment techniques.

The auditing process pays special attention to the following considerations:

- Testing the smart contracts against both common and uncommon attack vectors.
- Assessing the codebase to ensure compliance with current best practices and industry standards.
- Ensuring contract logic meets the specifications and intentions of the client.
- Cross referencing contract structure and implementation against similar smart contracts produced by industry leaders.
- Thorough line-by-line manual review of the entire codebase by industry experts.

The security assessment resulted in findings that ranged from critical to informational. We recommend addressing these findings to ensure a high level of security standards and industry practices. We suggest recommendations that could better serve the project from the security perspective:

- Enhance general coding practices for better structures of source codes;
- Add enough unit tests to cover the possible use cases given they are currently missing in the repository;
- Provide more comments per each function for readability, especially contracts are verified in public;
- Provide more transparency on privileged activities once the protocol is live.



### **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. White 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**

MotechAudit was commissioned by Arata to perform an audit of smart (contracts:

https://bscscan.com/address/0xd4a06f9d51a992a3a1f07bd5cdff1c465b23a723 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.



## **AUDIT DETAILS**



### **AUDITED PROJECT**

Arata



### **DEPLOYER ADDRESS**

0x6d0bbd8f6B032195B65e1F471A060B7341d25c2F



### **CLIENT CONTACTS:**

Arata Team



### **BLOCKCHAIN**

Binance smart chain Project



#### **WEBSITE:**

https://arata.io





# **CONTRACT DETAILS**

### **Token contract details for Sep-25-2021**

Contract name	Arata
Contract address	0x49092aB0b87f6C7B4449a6031dfe8B7d51c97605
Total supply	5,000,000 ARATA
Token ticker	Arata Studio (ARATA)
Decimals	18
Token holders	1,595
Transactions count	42,495
Top 100 holders dominance	97.95%
Contract deployer address	0x6d0bbd8f6B032195B65e1F471A060B7341d25c2F
Contract's current owner addres	ss 0x6d0bbd8f6B032195B65e1F471A060B7341d25c2F

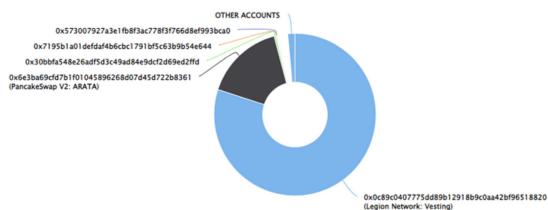


### **ARATA TOKEN DISTRIBUTION**

The top 100 holders collectively own 98.58% (4,929,186.77 Tokens) of Arata Studio

#### Arata Studio Top 100 Token Holders





(A total of 4,929,186.77 tokens held by the top 100 accounts from the total supply of 5,000,000.00 token)

# ARATA TOKEN CONTRACT INTERACTION DETAILS

Time Series: Token Contract Overview Sat 25. Sept 2021 - Wed 8. Dec 2021 Token Contract 0xd4a06f9d51a992a3a1f07bd5cdff1c465b23a723 (Arata Studio) Source: BscScan.com Zoom 1m 6m 1y All From Sep 24, 2021 To Dec 8, 2021 6M 27. Sep 22. Nov 29. Nov -e- Transfers Count --- Total Uniques -+- Unique Receivers -III- Unique Senders



# **TOP 10 TOKEN HOLDERS**

Rank	Address	Quantity	Percentage	Value	Analytics
1	Legion Network: Vesting	4,000,000.0000000000000000	80.0000%	\$6,040,000.00	<u>~</u>
2	■ PancakeSwap V2: ARATA	792,881.148667287249363262	15.8576%	\$1,197,250.53	<u>~</u>
3	■ 0x30bbfa548e26adf5d3c49ad84e9dcf2d69ed2ffd	18,249.135267799163946222	0.3650%	\$27,556.19	<u>~*</u>
4	0x7195b1a01defdaf4b6cbc1791bf5c63b9b54e644	6,585.061823565172344119	0.1317%	\$9,943.44	<u>~</u>
5	0x573007927a3e1fb8f3ac778f3f766d8ef993bca0	6,528.0350650160914616	0.1306%	\$9,857.33	<u>~</u>
6	0xbcd69ce8027b930c7712290f4f0c1e8864382123	4,000	0.0800%	\$6,040.00	<u>~</u>
7	0x629f0cb1f77cbd39509febab56a56a120aa2020b	3,953.858964445296877071	0.0791%	\$5,970.33	<u>~</u>
8	0x326a8b9f07d13f241546ba3e26f21dea63bca02b	3,801.6	0.0760%	\$5,740.42	<u>~</u> *
9	■ 0xbc80cbce3560ca1c88baf802e29be71552cb3038	3,631.393926025531411047	0.0726%	\$5,483.40	<u>~</u>
10	0xe2191c8672df678770a1572c10a35dc6c87e177b	2,671.619187776370425446	0.0534%	\$4,034.14	<u>~</u>

source:https://bscscan.com/



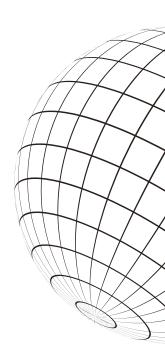
# **SECURITY ISSUES**

- Critical Severity Issues

  No high severity issues found.
- High Severity Issues

  No high severity issues found.
- Medium Severity Issues

  No high severity issues found.



### Low Severity Issues

1. Using SafeMath in Solidity >= 0.8.0 Starting solidity version 0.8.0 arithmetic operations revert on underflow and overflow. There's no more need to assert the result of operations.

**Contracts**: Arata.sol

Recommendation: Please avoid using assert for arithmetic operations.

2. A public function that could be declared external. public functions that are never called by the contract should be declared external to save gas.

**Contracts**: Arata.sol

**Functions**: EnableAllFees, SetSellTax, SetBuyTax, SetMiningAddress, setAutomatedMarketMakerPair, BlackListAddress, IsBlackListed

**Recommendation**: Use the external attribute for functions never called from the contract.

# **TOKEN LOGO**







## **CONCLUSION**

Smart contracts contain owner privileges!

Motech Audit 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.

