KISHIELD

Security Audit

Atlantic Island Token

April 4, 2022

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Audit Summary

This report has been prepared for Atlantic Island Token on the Binance Chain network. KISHIELD provides both client-centered and user-centered examination of the smart contracts and their current status when applicable. This report represents the security assessment made to find issues and vulnerabilities on the source code along with the current liquidity and token holder statistics of the protocol.

A comprehensive examination has been performed, utilizing Cross Referencing, Static Analysis, In-House Security Tools, and line-by-line Manual Review.

The auditing process pays special attention to the following considerations:

- Ensuring contract logic meets the specifications and intentions of the client without exposing the user's funds to risk.
- Testing the smart contracts against both common and uncommon attack vectors.
- Inspecting liquidity and holders statistics to inform the current status to both users and client when applicable.
- Assessing the codebase to ensure compliance with current best practices and industry standards.
- Verifying contract functions that allow trusted and/or untrusted actors to mint, lock, pause, and transfer assets.
- Thorough line-by-line manual review of the entire codebase by industry experts.

Project Overview

Token Summary

Parameter	Result
Address	0xdF9439E90bc8ee0091eF28ae38DEbf9F366C96d9
Name	Atlantic Island
Token Tracker	Atlantic Island (AIS)
Decimals	18
Supply	100,000,000,000
Platform	Binance Chain
compiler	v0.8.4+commit.c7e474f2
Optimization	Yes with 200 runs
LicenseType	MIT
Language	Solidity
Codebase	https://bscscan.com/address/0xdF9439E90bc8ee0091eF28ae38DEbf9F366C96d9
Url	https://www.atlanticislandwar.com/

Main Contract Assessed

Name	Contract	Live
Atlantic Island	0xdF9439E90bc8ee0091eF28ae38DEbf9F366C96d9	Yes

Smart Contract Vulnerability Checks

Vulnerability	Automatic Scan	Manual Scan	Result
Unencrypted Private Data On-Chain	Complete	Complete	Low / No Risk
Code With No Effects	Complete	Complete	Low / No Risk
Message call with hardcoded gas amount	Complete	Complete	Low / No Risk
Hash Collisions With Multiple Variable Length Arguments	Complete	Complete	Low / No Risk
Unexpected Ether balance	Complete	Complete	Low / No Risk
Presence of unused variables	Complete	Complete	Low / No Risk
Right-To-Left-Override control character (U+202E)	Complete	Complete	Low / No Risk
Typographical Error	Complete	Complete	Low / No Risk
DoS With Block Gas Limit	Complete	Complete	Low / No Risk
Arbitrary Jump with Function Type Variable	Complete	Complete	Low / No Risk
Insufficient Gas Griefing	Complete	Complete	Low / No Risk
Incorrect Inheritance Order	Complete	Complete	Low / No Risk
Write to Arbitrary Storage Location	Complete	Complete	Low / No Risk
Requirement Violation	Complete	Complete	Low / No Risk
Missing Protection against Signature Replay Attacks	Complete	Complete	Low / No Risk
Weak Sources of Randomness from Chain Attributes	Complete	Complete	Low / No Risk

Vulnerability	Automatic Scan	Manual Scan	Result
Authorization through tx.origin	Complete	Complete	Low / No Risk
Delegatecall to Untrusted Callee	Complete	Complete	Low / No Risk
Use of Deprecated Solidity Functions	Complete	Complete	Low / No Risk
Assert Violation	Complete	Complete	Low / No Risk
Reentrancy	Complete	Complete	Low / No Risk
Unprotected SELFDESTRUCT Instruction	Complete	Complete	Low / No Risk
Unprotected Ether Withdrawal	Complete	Complete	Low / No Risk
Unchecked Call Return Value	Complete	Complete	Low / No Risk
Outdated Compiler Version	Complete	Complete	Low / No Risk
Integer Overflow and Underflow	Complete	Complete	Low / No Risk
Function Default Visibility	Complete	Complete	Low / No Risk

Contract Ownership

The contract ownership of Atlantic Island is not currently renounced. The ownership of the contract grants special powers to the protocol creators, making them the sole addresses that can call sensible ownable functions that may alter the state of the protocol.

The current owner is the address 0xD417Db0EF49029701b75128eb0f14dB7Ce37Dc3b which can be viewed from:
HERE

The owner wallet has the power to call the functions displayed on the priviliged functions chart below, if the owner wallet is compromised this privileges could be exploited.

We recommend the team to renounce ownership at the right timing if possible, or gradually migrate to a timelock with governing functionalities in respect of transparency and safety considerations.

Important Notes To The Users:

- The owner cannot mint tokens after intial deployment.
- The owner cannot stop Trading.
- The owner cannot change the max tx amount.
- The transfer function is implemented correctly.
- The owner cannot set fees over 25%
- Once the owner renounces ownership of the contract, none of the following are applicable.
- The owner can update the addrees for the router and the dividend Tracker
- The owner can add/remove addresses from the dividents and fees.
- The owner can change the claim wait time but is retricted between 1 and 24 hours
- The owner can change the MinimumTokenBalanceForDividends with no restrictions
- No high-risk Exploits/Vulnerabilities Were Found in token Source Code.

Audit Passed

Findings Summary

Classification of Issues

Severity	Description
High	Exploits, vulnerabilities or errors that will certainly or probabilistically lead towards loss of funds, control, or impairment of the contract and its functions. Issues under this classification are recommended to be fixed with utmost urgency
Medium	Bugs or issues with that may be subject to exploit, though their impact is somewhat limited.Issues under this classification are recommended to be fixed as soon as possible.
Low	Effects are minimal in isolation and do not pose a significant danger to the project or its users. Issues under this classification are recommended to be fixed nonetheless.
Info	Consistency, syntax or style best practices. Generally pose a negligible level of risk, if any.

Findings

Severity	Found
High	0
Medium	0
Low	1
Info	3
Total	4

Findings

Unchecked transfer

ID	Severity	Contract	Function
01	Low	Atlantic Island	In function swapAndSendToFee()

Description

Ignores return value by IERC20(rewardToken).transfer(_marketingWalletAddress,newBalance). Several tokens do not revert in case of failure and return false. If one of these tokens is used in the contract, it will not revert if the transfer fails

Recommendation

Use SafeERC20, or ensure that the transfer/transferFrom return value is checked.

Uninitialized local variables

ID	Severity	Contract	Function
02	Informational	Atlantic Island	function _transfer()

Description

Variables lastProcessedIndex, iterations, and claims are Uninitialized

Recommendation

Initialize all the variables. If a variable is meant to be initialized to zero, explicitly set it to zero to improve code readability.

Missing events arithmetic

ID	Severity	Contract	Function
03	Informational	Atlantic Island	Missing events for setSwapTokensAtAmount, setTokenRewardsFee, setLiquiditFee, setMarketingFee

Description

Functions that change critical arithmetic parameters should emit an event.

Recommendation

Emit corresponding events for critical parameter changes.

Public function that could be declared external

ID	Severity	Contract	Function
04	Informational	Atlantic Island	Function excludeMultipleAccountsFromFees, withdrawDividend, withdrawnDividendOf, dividendTokenBalanceOf

Description

Gas Optimization. Public function that could be declared external

Recommendation

Public functions that are never called by the contract should be declared external to save gas.

Priviliged Functions (onlyOwner)

Function Name	Parameters	Visibility
renounceOwnership	none	public
transferOwnership	address newOwner	public
distributeCAKEDividends	uint256 amount	public
initialize	none	external
excludeFromDividends	address account	external
updateClaimWait	uint256 newClaimWait	external
updateMinimumTokenBalanceForDividends	uint256 amount	external
setBalance	address account, uint256 newBalance	external
processAccount	address account, bool automatic	public
setSwapTokensAtAmount	uint256 amount	external
updateDividendTracker	address newAddress	public
updateUniswapV2Router	address newAddress	public
excludeFromFees	address account, bool excluded	public
excludeMultipleAccountsFromFees	calldata accounts, bool excluded	public
setMarketingWallet	address wallet	external
setTokenRewardsFee	uint256 value	external

Function Name	Parameters	Visibility
setLiquiditFee	uint256 value	external
setMarketingFee	uint256 value	external
setAutomatedMarketMakerPair	address pair, bool value	public
updateGasForProcessing	uint256 newValue	public
updateClaimWait	uint256 claimWait	external
updateMinimumTokenBalanceForDividends	uint256 amount	external
excludeFromDividends	address account	external

Statistics

Liquidity Info

Parameter	Result
Pair Address	0x724D135c7566950398203013ba92697E63955279
AIS Reserves	0.00 AIS
BNB Reserves	0.00 BNB
Liquidity Value	$0 USD

Token (AIS) Holders Info

Parameter	Result
AIS Percentage Burnt	0.00%
AIS Amount Burnt	0 AIS
Top 10 Percentage Own	96.30%
Top 10 Amount Owned	96,300,000,000 AIS
Top 10 Aprox Value	$NaN USD

LP (AIS/BNB) Holders Info

Parameter	Result
AIS/BNB % Burnt	0.00%
AIS/BNB Amount Burnt	0 AIS
Top 10 Percentage Owned	0.00%
Top 10 Amount Owned	0 AIS
Locked Tokens Percentage	0.00%
Locked Tokens Amount	0 AIS

* All the data diplayed above was taken on-chain at block 16668361
* The tokens on industry-standard burn wallets are not included on the top 10 wallets calculations

Liquidity Ownership

The token does not have liquidity at the moment of the audit, block 16668361

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