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Novos is an agency specializing in blockchain technology solutions, Audits, KYC / Doxx.





CERTIFICATE OF COMPLIANCE

Smart Contract Audit by NOVOS









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Novos Audit Summary

This report has been prepared for A Dragons World on the BSC network. Novos 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

Parameter Parame	Result
Address	0x1dfb236462707bdA9671656A4C9F232b5F804723
Name	A Dragons World
Token Tracker	ADW
Decimals	10
Supply	1,000,000
Platform	BSC
Compiler	v0.8.4+commit.c7e474f2
Optimization	Yes with 1 runs
Other Settings:	default evmVersion
Language	Solidity
Codebase	https://bscscan.com/address/0x518a6b702b6f65f4845b68adaf09756d54eca2 <u>51#code</u>
Url	https://adragons.world/

Main Contract Assessed

Name	Contract	Live
A Dragons World	0x1dfb236462707bdA9671656A4C9F232b5F804723	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
Typographical Effor DoS With Block Gas Limit	✓ Complete	✓ Complete	✓ Low/No Risk
			✓ Low/No Risk
❖ Arbitrary Jump with Function Type Variable	✓ Complete	✓ Complete	
♦ 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









Smart Contract Vulnerability Checks

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 A Dragons World 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.

01

The current owner is the address 0x53e0FB31aea623D472ccD834746E490cfB356E8c 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:



- If `amount` is the maximum `uint256`, the allowance is not updated on `transferFrom`.
 This is semantically equivalent to an infinite approval. Requirements: `spender` cannot be the zero address.
- NOTE: Does not update the allowance if the current allowance is the maximum `uint256`.

 Requirements: -`from` and `to` cannot be the zero address. `from` must have a balance of at least `amount`. the caller must have allowance for ``from`'s tokens of at least `amount`.
- Atomically increases the allowance granted to `spender` by the caller. This is an alternative to {approve} that can be used as a mitigation for * problems described in {IERC20-approve}. Emits an {Approval} event indicating the updated allowance.
- Atomically decreases the allowance granted to `spender` by the caller. This is an alternative to {approve} that can be used as a mitigation for problems described in {IERC20-approve}.

 * Emits an {Approval} event indicating the updated allowance.



Technical Findings Summary

Classification of Issues

Total

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

nonetheless.



Findings

Public function that could be declared external



ID	Severity	Contract	Function
01	Informational	ADragonsWorld	Functions: size, getKeyAtIndex, getIndexOfKey

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.



Findings

Missing events arithmetic



ID	Severity	Contract	Function
02	Informational	ADragonsWorld	Missing events for setWalletBalance, setMaxBuyTransaction, setMaxSellTransaction, setSwapTokensAtAmount, setSellTransactionMultiplier

Description

Functions that change critical arithmetic parameters should emit an event.

Recommendation

Emit corresponding events for critical parameter changes.



Priviliged Functions (onlyOwner & Others)

Function Name	Parameters	Visibility
✓ renounceOwnership	■ none	external
✓ transferOwnership	address newOwner	• public
✓ prepareForPartherOrExchang eListing	 address_partnerOrExchangeAddress 	• external
✓ setWalletBalance	 uint256 _maxWalletBalance 	 external
✓ setMaxBuyTransaction	■ uint256_maxTxn	■ external
✓ setMaxSellTransaction	■ uint256_maxTxn	 external
✓ updateBusdDividendToken	 address _newContract 	 external
✓ updateMarketingWallet	address_newWallet	 external
✓ setSwapTokensAtAmount	■ uint256_swapAmount	 external
✓ setSellTransactionMultiplier	■ uint256_multiplier	 external
✓ setTradingIsEnabled	■ none	 external
✓ setBusdDividendEnabled	bool_enabled	 external
✓ setMarketingEnabled	bool_enabled	 external
✓ setSwapAndLiquifyEnabled	bool_enabled	• external
✓ updatebusdDividendTracker	address newAddress	• external
✓ updateUniswapV2Router	address newAddress	• external



Priviliged Functions (onlyOwner & Others)

Function Name	Parameters	Visibility
✓ excludeFromFees	address account, bool excluded	- public
✓ excludeFromDividend	 address account 	• public
✓ setAutomatedMarketMakerP air	 address pair, bool value 	external
✓ updateGasForProcessing	■ uint256 newValue	external
✓ updateMinimumBalanceForDi vidends	 uint256 newMinimumBalance 	 external
✓ updateClaimWait	■ uint256 claimWait	external
✓ processDividendTracker	■ uint256 gas	external





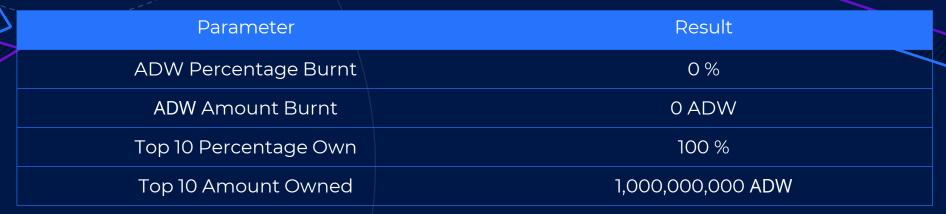


Parameter	Result
Pair Address	-
ADW Reserves	O ADW
Reserves, -	O -
Liquidity Value	\$0



Novos Statistics

Token (ADW) Holders Info



Rank	Address	Quantity	Percentage	Analytics
1	Pinksale: PinkLock V2	850,000,000	85.0000%	<u>₩</u>
2	■ 0x0f701caf391d2c4b5462143052c88718010b7bac	149,150,000	14.9150%	<u>₩</u>
3	0x53e0fb31aea623d472ccd834746e490cfb356e8c	600,000	0.0600%	<u>₩</u>
4	0x552ed31aabf6a60f5f71fa6a34aac8094913cf3c	250,000	0.0250%	<u>~</u>
4		250,000		M



Disclaimer

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