



KISHIELD

Security Audit

AUFIN Token

April 6, 2022

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Audit Summary

This report has been prepared for AUFIN 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	0xB7F3d845D693C930Fa0fA1c4d71bB6Ba40ab6af4
Name	AUFIN
Token Tracker	AUFIN (AUN)
Decimals	10
Supply	1,000,000
Platform	Binance Chain
compiler	v0.8.0+commit.c7dfd78e
Optimization	Yes with 200 runs
LicenseType	Unlicense
Language	Solidity
Codebase	https://bscscan.com/ address/0xB7F3d845D693C930Fa0fA1c4d71bB6Ba40ab6af4
Url	https://aufinprotocol.com/

Main Contract Assessed

Name	Contract	Live
AUFIN	0xB7F3d845D693C930Fa0fA1c4d71bB6Ba40ab6af4	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 AUFIN 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 0x6666ABB766F163d4e7E3dFe50f1963DD1b2F8888 which can be viewed from: [HERE](#)

The owner wallet has the power to call the functions displayed on the privileged 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 initial deployment.
- The transfer function is implemented correctly.
- The owner cannot stop Trading.
- The owner cannot change the max tx amount.
- The owner cannot change the fees amount.
- autoRebase and autoAddLiquidity are by default false at deployment time.
- Liquidity is added 2 days after the last liquidity addition.
- Once the owner renounces ownership of the contract, none of the following are applicable.
- Owner can withdraw all tokens from the contract to the treasuryReceiver address.
- Owner can enable/disable autoRebase and AutoAddLiquidity
- Owner can add and remove contracts from the bot blacklist.
- Owner can set wallets for fee exempt in setWhitelist function.
- 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

Public function that could be declared external

ID	Severity	Contract	Function
01	● Informational	AUFIN	Function timeToNextEpoch, getLiquidityBacking, setPairAddress

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.

Division before Multiplication

ID	Severity	Contract	Function
02	● Low	AUFIN	function takeFee(), getLiquidityBacking()

Description

Precision Loss. Division before multiplication can result in truncation and less accurate results

Recommendation

Multiplication should be performed before division to not lose precision.

Variables could be declared as constant

ID	Severity	Contract	Function
03	● Informational	AUFIN	variables name, symbol, decimals

Description

Gas Optimization. Variables that are never changed could be declared as constant.

Recommendation

We recommend declaring those variables as constant.

Unused Variables

ID	Severity	Contract	Function
04	● Informational	AUFIN	_name _symbol _decimals

Description

Variables not used as the constructor uses the IERC20Metadata().

Recommendation

Delete this variables or make use of them in the IERC20Metadata() instead of passing the values directly.

Privileged Functions (onlyOwner)

Function Name	Parameters	Visibility
renounceOwnership	none	public
transferOwnership	address newOwner	public
transfer	none	external
manualAddLiquidity	none	external
transferFrom	none	external
addLiquidity	none	internal
swapBack	none	internal
withdrawAllToTreasury	none	external
withdrawAllToTreasury	none	external
setAutoRebase	bool _flag	external
setAutoAddLiquidity	bool _flag	external
setFeeReceivers	address _autoLiquidityReceiver, address _treasuryReceiver, address _aufinInsuranceFundReceiver, address _firePit	external
setWhitelist	address _addr	external
setBotBlacklist	address _botAddress, bool _flag	external
setPairAddress	address _pairAddress	public
setLP	address _address	external



Statistics

Liquidity Info

Parameter	Result
Pair Address	0x77468b1Edf5B006Dda1B2664044B002E93A29322
AUN Reserves	0.00 AUN
BNB Reserves	0.00 BNB
Liquidity Value	\$0 USD

Token (AUN) Holders Info

Parameter	Result
AUN Percentage Burnt	0.00%
AUN Amount Burnt	0 AUN
Top 10 Percentage Own	100.00%
Top 10 Amount Owned	1,000,000 AUN
Top 10 Aprox Value	\$NaN USD



LP (AUN/BNB) Holders Info

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

* All the data displayed above was taken on-chain at block 16720736

* 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 16720736

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Disclaimer

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