

Audit Report Ainance

February 2023

Type ERC20

Network ARBITRUM

Address 0x8f063694D1C96326eE8ed75f1469d95Eb0059D62

Audited by © cyberscope



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Review

Contract Name	Ainance
Compiler Version	v0.8.17+commit.8df45f5f
Optimization	200 runs
Explorer	https://arbiscan.io/address/0x8f063694d1c96326ee8ed75f1469d95eb00 59d62
Address	0x8f063694d1c96326ee8ed75f1469d95eb0059d62
Network	ARBITRUM
Symbol	ANA
Decimals	18
Total Supply	30,300,000

Audit Updates

Initial Audit	21 Feb 2023

Source Files

Filename	SHA256	
Ainance.sol	ff309d395c11b12674fea78cfe467b3fa25 e97a4b0cd52ab96a1279704e5dabf	



Analysis

Critical
 Medium
 Minor / Informative
 Pass

Severity	Code	Description	Status
•	ST	Stops Transactions	Passed
•	OCTD	Transfers Contract's Tokens	Passed
•	OTUT	Transfers User's Tokens	Passed
•	ELFM	Exceeds Fees Limit	Passed
•	ULTW	Transfers Liquidity to Team Wallet	Passed
•	MT	Mints Tokens	Passed
•	ВТ	Burns Tokens	Passed
•	ВС	Blacklists Addresses	Passed

4



Diagnostics

CriticalMediumMinor / Informative

Severity	Code	Description	Status
•	L04	Conformance to Solidity Naming Conventions	Unresolved
•	L19	Stable Compiler Version	Unresolved



L04 - Conformance to Solidity Naming Conventions

Criticality	Minor / Informative
Location	Ainance.sol#L531
Status	Unresolved

Description

The Solidity style guide is a set of guidelines for writing clean and consistent Solidity code. Adhering to a style guide can help improve the readability and maintainability of the Solidity code, making it easier for others to understand and work with.

The followings are a few key points from the Solidity style guide:

- 1. Use camelCase for function and variable names, with the first letter in lowercase (e.g., myVariable, updateCounter).
- 2. Use PascalCase for contract, struct, and enum names, with the first letter in uppercase (e.g., MyContract, UserStruct, ErrorEnum).
- 3. Use uppercase for constant variables and enums (e.g., MAX_VALUE, ERROR_CODE).
- 4. Use indentation to improve readability and structure.
- 5. Use spaces between operators and after commas.
- 6. Use comments to explain the purpose and behavior of the code.
- 7. Keep lines short (around 120 characters) to improve readability.

uint256 amount

Recommendation

By following the Solidity naming convention guidelines, the codebase increased the readability, maintainability, and makes it easier to work with.

Find more information on the Solidity documentation https://docs.soliditylang.org/en/v0.8.17/style-guide.html#naming-convention.



L19 - Stable Compiler Version

Criticality	Minor / Informative
Location	Ainance.sol#L3
Status	Unresolved

Description

The ^ symbol indicates that any version of Solidity that is compatible with the specified version (i.e., any version that is a higher minor or patch version) can be used to compile the contract. The version lock is a mechanism that allows the author to specify a minimum version of the Solidity compiler that must be used to compile the contract code. This is useful because it ensures that the contract will be compiled using a version of the compiler that is known to be compatible with the code.

```
pragma solidity ^0.8.0;
```

Recommendation

The team is advised to lock the pragma to ensure the stability of the codebase. The locked pragma version ensures that the contract will not be deployed with an unexpected version. An unexpected version may produce vulnerabilities and undiscovered bugs. The compiler should be configured to the lowest version that provides all the required functionality for the codebase. As a result, the project will be compiled in a well-tested LTS (Long Term Support) environment.

Functions Analysis

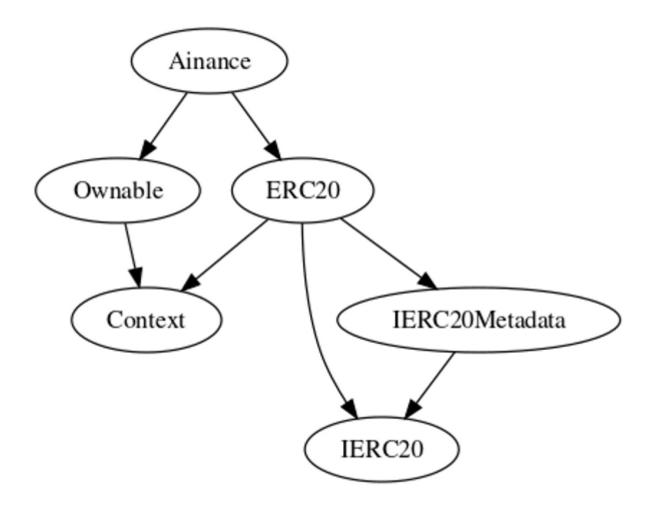
Contract	Туре	Bases		
	Function Name	Visibility	Mutability	Modifiers
Context	Implementation			
	_msgSender	Internal		
	_msgData	Internal		
ERC20	Interface			
	totalSupply	External		-
	balanceOf	External		-
	transfer	External	✓	-
	allowance	External		-
	approve	External	✓	-
	transferFrom	External	✓	-
IERC20Metad ata	Interface	IERC20		
	name	External		-
	symbol	External		-
	decimals	External		-
ERC20	Implementation	Context, IERC20, IERC20Met adata		
		Public	✓	-
	name	Public		-
	symbol	Public		-
	decimals	Public		-



	totalSupply	Public		-
	balanceOf	Public		-
	transfer	Public	✓	-
	allowance	Public		-
	approve	Public	1	-
	transferFrom	Public	1	-
	increaseAllowance	Public	1	-
	decreaseAllowance	Public	1	-
	_transfer	Internal	1	
	_mint	Internal	1	
	_burn	Internal	1	
	_approve	Internal	1	
	_spendAllowance	Internal	1	
	_beforeTokenTransfer	Internal	1	
	_afterTokenTransfer	Internal	1	
Ownable	Implementation	Context		
		Public	1	-
	owner	Public		-
	_checkOwner	Internal		
	renounceOwnership	Public	1	onlyOwner
	transferOwnership	Public	1	onlyOwner
	_transferOwnership	Internal	1	
Ainance	Implementation	ERC20, Ownable		
		Public	✓	ERC20
	burn	External	1	onlyOwner

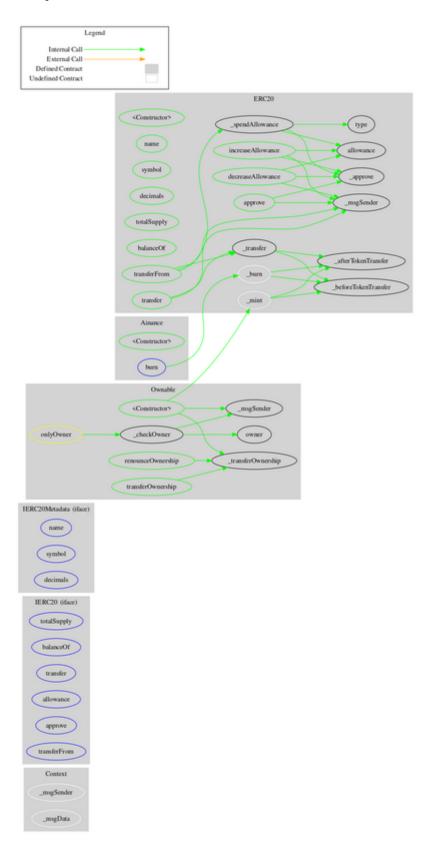


Inheritance Graph





Flow Graph





Summary

Ainance is an interesting project that has a friendly and growing community. The Smart Contract analysis reported no compiler error or critical issues. The contract Owner can access some admin functions that can not be used in a malicious way to disturb the users' transactions.



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Cyberscope is one of the leading smart contract audit firms in the crypto space and has built a high-profile network of clients and partners.



The Cyberscope team

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