

Audit Report **Bull Pepe Wif Hat**

Febuary 2024

Network ETH

Address 0x958Ac35c68B52979c84C28684CfDB04761f67a96

Audited by © Solidikey



Analysis

Critical
 Medium
 Minor / Informative
 Pass

Severity	Code	Description	Status
•	ST	Stops Transactions	Passed
•	OTUT	Transfers User's Tokens	Passed
•	ELFM	Exceeds Fees Limit	Passed
•	MT	MintsTokens	Passed
•	ВТ	BurnsTokens	Passed
•	ВС	Blacklists Addresses	Passed



Diagnostics

Critical
 Medium
 Minor / Informative

Severity	Code	Description	Status
•	IDI	Immutable Declaration Improvement	Unresolved
•	L04	Conformance to Solidity Naming Conventions	Unresolved



Table of Contents

Analysis	1
Diagnostics	2
Table of Contents	3
Review	4
Audit Updates	4
Source Files	4
Findings Breakdown	5
IDI - Immutable Declaration Improvement	6
Description	6
Recommendation	6
L04 - Conformance to Solidity Naming Conventions	7
Description	7
Recommendation	7
Functions Analysis	8
Inheritance Graph	11
Flow Graph	12
Summar y	13
Disclaimer	14
About Solidikev	15



Review

Contract Name	BullPepe Wif Hat
Compiler Version	v0.8.9+commit.e5eed63a
Optimization	200 runs
Explorer	https://etherscan.io/address/0x958ac35c68b52979 c84c28684cfdb04761f67a96#code
Address	0x958Ac35c68B52979c84C28684CfDB04761f6 7a96
Network	ETH
Symbol	BIF
Decimals	18
TotalSupply	42,690,000,000

Audit Updates

Source Files

Filename	SHA256
Bullpepewifhat.sol	fec3853b82d449f5aa25c8eccb7a6322e92c3ef530356365468a28a8 aab 3ffc1



Findings Breakdown



Severity		Unresolved	Acknowledged	Resolved	Other
•	Critical	0	0	0	0
•	Medium	0	0	0	0
	Minor / Informative	2	0	0	0



IDI - Immutable Declaration Improvement

Criticality	Minor / Informative
Location	BullPepeWifHat.sol#L235,236
Status	Unresolved

Description

The contract declares state variables that their value is initialized once in the constructor and are not modified afterwards. The immutable is a special declaration for this kind of state variables that saves gas when it is defined.

```
_name
_symbol
```

Recommendation

By declaring a variable as immutable, the Solidity compiler is able to make certain optimizations. This can reduce the amount of storage and computation required by the contract, and make it more gas-efficient.



L04 - Conformance to Solidity Naming Conventions

Criticality	Minor / Informative
Location	BullPepeWifHat.sol#L224,225
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. UsecamelCaseforfunctionandvariablenames, with the first letter in lower case (e.g., my Variable, updateCounter).
- 2. UsePascalCaseforcontract, struct, and enumnames, with the first letter in uppercase (e.g., MyContract, UserStruct, ErrorEnum).
- 3. Useuppercaseforconstantvariablesandenums(e.g.,MAX_VALUE, ERROR_CODE).
- 4. Useindentationtoimprovereadabilityandstructure.
- 5. Usespacesbetweenoperatorsandaftercommas.
- 6. Usecommentstoexplainthepurposeandbehaviorofthecode.
- 7. Keeplinesshort(around120characters)toimprovereadability.

```
uint8 private constant _decimals = 18
uint256 public constant hardCap = 42_690_000_000 * (10 **
_decimals)
```

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.



Functions Analysis

Contract	Туре	Bases		
	Function Name	V isibility	Mutability	Modifiers
IERC20	Interface			
	totalSupply	External		-
	balanceOf	External		-
	transfer	External	V	-
	allowance	External		-
	approve	External	V	-
	transferFrom	External	V	-
IERC20Metadat	Interface	IERC20		
	name	External		-
	symbol	External		-
	decimals	External		-
Context	Implementation			
	_msgSender	Internal		
	_msgData	Internal		
Ownable	Implementation	Context		
		Public	V	-



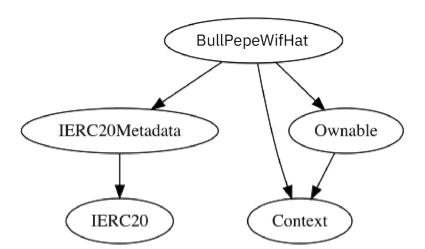
	owner	Public		-
	_checkOwner	Internal		
	renounceOwnership	Public	V	onlyOwner
	transferOwnership	Public	V	onlyOwner
	_transferOwnership	Internal	V	
BullPepeWifHat	Implementation	Context, IERC20Meta data, Ownable		
		Public	V	-
	name	Public		-
	symbol	Public		-
	decimals	Public		-
	totalSupply	Public		-
	balanceOf	Public		-
	transfer	Public	V	-
	allowance	Public		-
	approve	Public	V	-
	transferFrom	Public	V	-
	increaseAllowance	Public	V	-
	decreaseAllowance	Public	V	-
	_transfer	Internal	V	
	_mint	Internal	V	
	_burn	Internal	V	



burn	External	V	-
_approve	Internal	V	

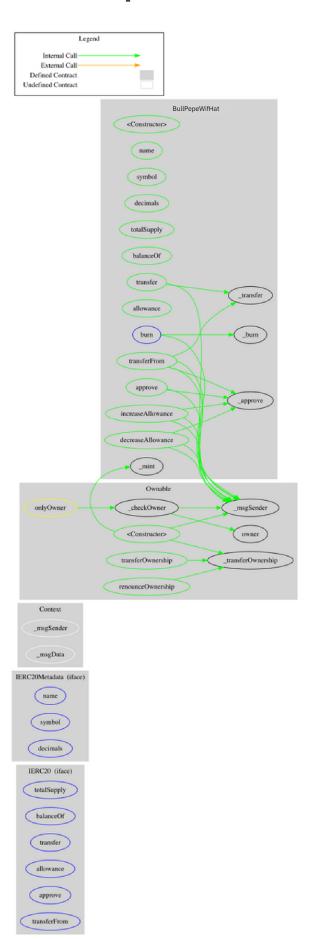


Inheritance Graph





Flow Graph





Summary

BullPepeWifHat contract implements a token mechanism. This audit investigates security issues, business logic concerns and potential improvements. BullPepeWifHat 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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About Solidikey

Solidikey is a blockchain cybersecurity company that was founded with the vision to make web3.0 a safer place for investors and developers. Since its launch, it has worked with thousands of projects and is estimated to have secured tens of millions of investors' funds.

Solidikey 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 Solidikey team Solidikey