

Audit Report Trade CipherHub Token

March 2024

Network BSC

Address 0x9c6c2617D408F50fEF599A3e03c4c464293fdAD3

Audited by © cyberscope



Analysis

CriticalMediumMinor / InformativePass

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



Diagnostics

CriticalMediumMinor / Informative

Severity	Code	Description	Status
•	L09	Dead Code Elimination	Unresolved
•	L19	Stable Compiler Version	Unresolved



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Review

Contract Name	TCHT
Compiler Version	v0.8.19+commit.7dd6d404
Optimization	200 runs
Explorer	https://bscscan.com/address/0x9c6c2617d408f50fef599a3e03c 4c464293fdad3
Address	0x9c6c2617d408f50fef599a3e03c4c464293fdad3
Network	BSC
Symbol	TCHT
Decimals	18
Total Supply	100,000,000,000
Badge Eligibility	Yes

Audit Updates

Initial Audit	19 Mar 2024
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Source Files

Filename	SHA256
TCHT.sol	64ca867c49dbc113266b19cfc286c5953758c9d9431a40f121e5fcc7f44 b44e1



Findings Breakdown



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



L09 - Dead Code Elimination

Criticality	Minor / Informative
Location	TCHT.sol#L536
Status	Unresolved

Description

In Solidity, dead code is code that is written in the contract, but is never executed or reached during normal contract execution. Dead code can occur for a variety of reasons, such as:

- Conditional statements that are always false.
- Functions that are never called.
- Unreachable code (e.g., code that follows a return statement).

Dead code can make a contract more difficult to understand and maintain, and can also increase the size of the contract and the cost of deploying and interacting with it.

```
function _burn(address account, uint256 amount) internal
virtual {
    require(account != address(0), "ERC20: burn from the
zero address");

    _beforeTokenTransfer(account, address(0), amount);

    uint256 accountBalance = _balances[account];

...
    _totalSupply -= amount;
}

emit Transfer(account, address(0), amount);

_afterTokenTransfer(account, address(0), amount);
}
```



Recommendation

To avoid creating dead code, it's important to carefully consider the logic and flow of the contract and to remove any code that is not needed or that is never executed. This can help improve the clarity and efficiency of the contract.



L19 - Stable Compiler Version

Criticality	Minor / Informative
Location	TCHT.sol#L6
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 ^0.8.9;
```

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		
Ownable	Implementation	Context		
		Public	1	-
	owner	Public		-
	_checkOwner	Internal		
	renounceOwnership	Public	1	onlyOwner
	transferOwnership	Public	1	onlyOwner
	_transferOwnership	Internal	1	
IERC20	Interface			
	totalSupply	External		-
	balanceOf	External		-
	transfer	External	1	-
	allowance	External		-
	approve	External	✓	-
	transferFrom	External	✓	-



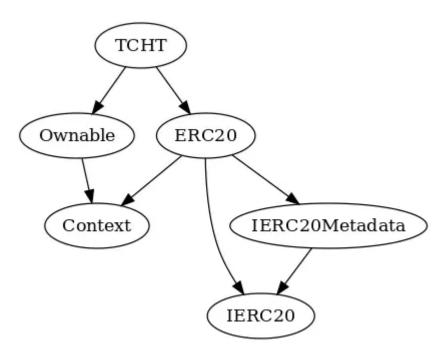
IERC20Metadat	Interface	IERC20		
	name	External		-
	symbol	External		-
	decimals	External		-
ERC20	Implementation	Context, IERC20, IERC20Meta data		
		Public	✓	-
	name	Public		-
	symbol	Public		-
	decimals	Public		-
	totalSupply	Public		-
	balanceOf	Public		-
	transfer	Public	✓	-
	allowance	Public		-
	approve	Public	✓	-
	transferFrom	Public	✓	-
	increaseAllowance	Public	✓	-
	decreaseAllowance	Public	✓	-
	_transfer	Internal	✓	
	_mint	Internal	✓	
	_burn	Internal	✓	



	_approve	Internal	✓	
	_spendAllowance	Internal	1	
	_beforeTokenTransfer	Internal	1	
	_afterTokenTransfer	Internal	✓	
тснт	Implementation	ERC20, Ownable		
		Public	✓	ERC20

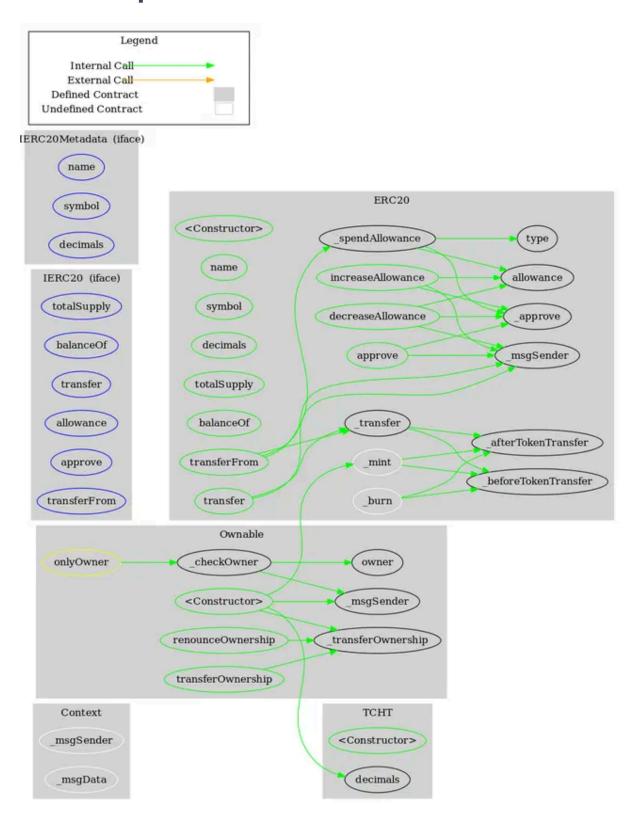


Inheritance Graph





Flow Graph





Summary

Trade CipherHub Token contract implements a token mechanism. This audit investigates security issues, business logic concerns and potential improvements. Trade CipherHub Token is an interesting project that has a friendly and growing community. The Smart Contract analysis reported no compiler error or critical issues.

The contract's ownership has been renounced. The information regarding the transaction can be accessed through the following link:

https://bscscan.com/tx/0x0f1544361e486f23560fb43f51afeb67f5738de51cd08f339bdc64b 2970b8362



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Blockchain technology and cryptographic assets present a high level of ongoing risk Cyberscope's position is that each company and individual are responsible for their own due diligence and continuous security Cyberscope's goal is to help reduce the attack vectors and the high level of variance associated with utilizing new and consistently changing technologies and in no way claims any guarantee of security or functionality of the technology we agree to analyze. The assessment services provided by Cyberscope are subject to dependencies and are under continuing development. You agree that your access and/or use including but not limited to any services reports and materials will be at your sole risk on an as-is where-is and as-available basis Cryptographic tokens are emergent technologies and carry with them high levels of technical risk and uncertainty. The assessment reports could include false positives false negatives and other unpredictable results. The services may access and depend upon multiple layers of third parties.

About Cyberscope

Cyberscope 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.

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

https://www.cyberscope.io