Cyberscope

Audit Report

Tectum Emission Token

April 2023

Network	ETH
Address	0x423f845b81d0848EedaDac448a83aDd7776B349d
Audited by	© cyberscope

Table of Contents

Review

Contract Name	Tettoken
Compiler Version	v0.4.17+commit.bdeb9e52
Optimization	200 runs
Explorer	https://etherscan.io/address/0x423f845b81d0848eedadac448a83add7776b349d
Address	0x423f845b81d0848eedadac448a83add7776b349d
Network	ETH
Symbol	TET
Decimals	4
Total Supply	10,000,000

Audit Updates

Initial Audit	09 Mar 2023 https://github.com/cyberscope-io/audits/tree/main/2-tet/v1/audit.pdf
Corrected Phase 2	14 Mar 2023 https://github.com/cyberscope-io/audits/tree/main/2-tet/v2/audit.pdf
Corrected Phase 3	17 Mar 2023 https://github.com/cyberscope-io/audits/tree/main/2-tet/v3/audit.pdf
Corrected Phase 4	18 Apr 2023

Source Files

Filename	SHA256
TetToken.sol	c2cae32de6ca879b6474afc0bc561632cae577f95f596a0f31fc161caf1a1775

Findings Breakdown

Critical	0
Medium	0
Minor / Informative	1

Severity	Unresolved	Acknowledged	Resolved	Other
Critical	0	0	0	0
Medium	0	0	0	0
Minor / Informative	1	0	0	0

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
●	BT	Burns Tokens	Passed
●	BC	Blacklists Addresses	Passed

Diagnostics

Critical Medium Minor / Informative

Severity	Code	Description	Status
	L04	Conformance to Solidity Naming Conventions	Unresolved

L04 - Conformance to Solidity Naming Conventions

Criticality	Minor / Informative
Location	TetToken.sol#L40,57,97,110,123,131,149,168,212,232,248
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.

```
address _owner
uint256 public _totalSupply
uint256 _value
address _to
uint256 public constant maxtet =100000000000
address _from
address _spender
uint256 _newts
uint256 _amount
```

Recommendation

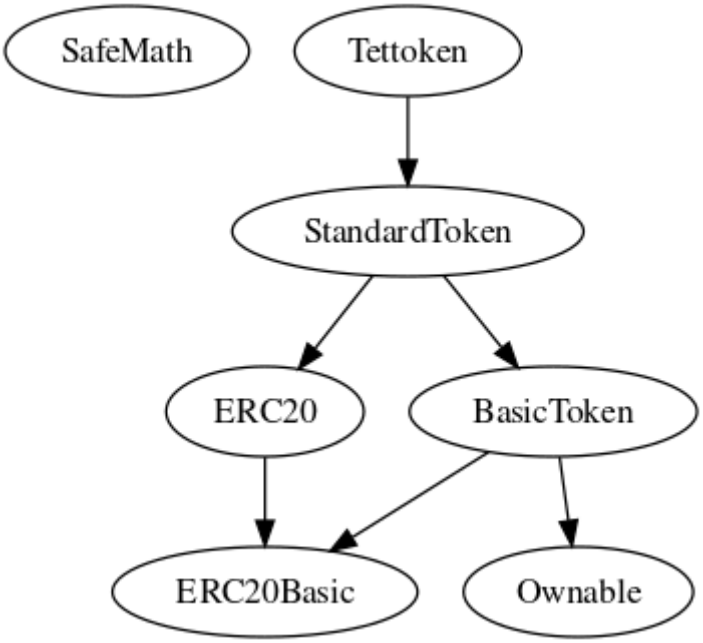
By following the Solidity naming convention guidelines, the codebase increased the readability, maintainability, and makes it easier to work with.
Find more information on the Solidity documentation
https://docs.soliditylang.org/en/v0.8.17/style-guide.html#naming-convention.

Functions Analysis

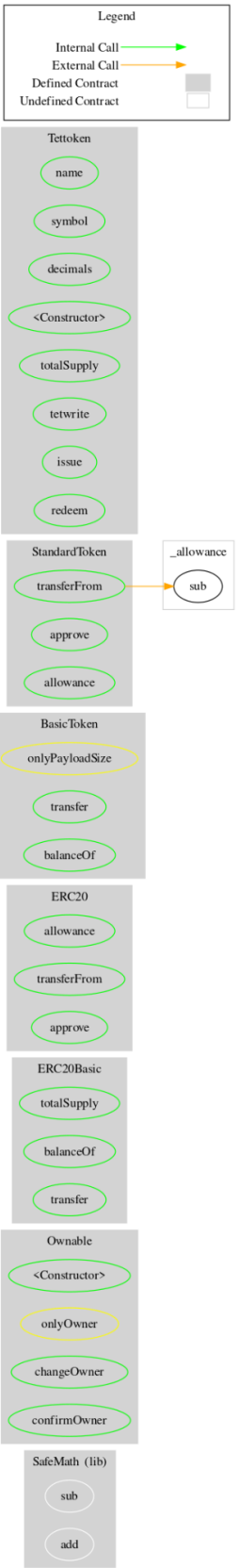
Contract	Type	Bases		
	Function Name	**Visibility**	**Mutability**	**Modifiers**
SafeMath	Library			
	sub	Internal		
	add	Internal		
Ownable	Implementation			
		Public	✓	-
	changeOwner	Public	✓	onlyOwner
	confirmOwner	Public	✓	-
ERC20Basic	Implementation			
	totalSupply	Public		-
	balanceOf	Public		-
	transfer	Public	✓	-
ERC20	Implementation	ERC20Basic		
	allowance	Public		-
	transferFrom	Public	✓	-
	approve	Public	✓	-

BasicToken	Implementation	Ownable, ERC20Basic		
	transfer	Public	✓	onlyPayloadSize
	balanceOf	Public		-
StandardToken	Implementation	BasicToken, ERC20		
	transferFrom	Public	✓	onlyPayloadSize
	approve	Public	✓	onlyPayloadSize
	allowance	Public		-
Tettoken	Implementation	StandardToken		
	name	Public		-
	symbol	Public		-
	decimals	Public		-
		Public	✓	-
	totalSupply	Public		-
	tetwrite	Public	✓	onlyOwner
	issue	Public	✓	onlyOwner
	redeem	Public	✓	onlyOwner

Inheritance Graph



Flow Graph


Legend
Internal Call
External Call
Defined Contract
Undefined Contract
Tettoken
name
symbol
decimals
<Constructor>
totalSupply
tetwrite
issue
redeem
StandardToken
transferFrom
approve
allowance
_allowance
sub
BasicToken
onlyPayloadSize
transfer
balanceOf
ERC20
allowance
transferFrom
approve
ERC20Basic
totalSupply
balanceOf
transfer
Ownable
<Constructor>
onlyOwner
changeOwner
confirmOwner
SafeMath (lib)
sub
add

Summary

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

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