

# Audit Report **Seismic**

November 2023

Network ETH

Address 0x6602d72a77235bd0666c141989831ad435b1552a

Audited by © cyberscope



# **Analysis**

CriticalMediumMinor / InformativePass

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



# **Diagnostics**

Critical
 Medium
 Minor / Informative

Severity	Code	Description	Status
•	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	5
Findings Breakdown	6
ST - Stops Transactions	7
Description	7
Recommendation	7
L04 - Conformance to Solidity Naming Conventions	8
Description	8
Recommendation	9
Functions Analysis	10
Inheritance Graph	15
Flow Graph	16
Summary	17
Disclaimer	18
About Cyberscope	19



# **Review**

Contract Name	SCB
Compiler Version	v0.8.17+commit.8df45f5f
Optimization	200 runs
Explorer	https://etherscan.io/address/0x6602d72a77235bd0666c141989 831ad435b1552a
Address	0x6602d72a77235bd0666c141989831ad435b1552a
Network	ETH
Symbol	SCB
Decimals	18
Total Supply	10,000,000

# **Audit Updates**

Initial Audit	16 Mar 2023 https://github.com/cyberscope-io/audits/blob/main/seismic/v1/a udit.pdf
Corrected Phase 2	20 Mar 2023 https://github.com/cyberscope-io/audits/tree/main/seismic/v2/a udit.pdf
Corrected Phase 3	20 November 2023

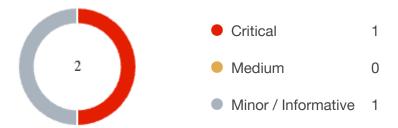


## **Source Files**

Filename	SHA256
contracts/token.sol	0232a4b63bd8abce256bfdd8460a84ca7f 5ba10592033cf5eef9bdb51064dfce
@openzeppelin/contracts/utils/Context.sol	1458c260d010a08e4c20a4a517882259a2 3a4baa0b5bd9add9fb6d6a1549814a
@openzeppelin/contracts/utils/math/SafeMath.sol	fc16aa4564878e1bb65740239d0c142245 1cd32136306626ac37f5d5e0606a7b
@openzeppelin/contracts/token/ERC20/IERC20.sol	7ebde70853ccafcf1876900dad458f46eb9 444d591d39bfc58e952e2582f5587
@openzeppelin/contracts/token/ERC20/ERC20.sol	d20d52b4be98738b8aa52b5bb0f88943f6 2128969b33d654fbca731539a7fe0a
@openzeppelin/contracts/token/ERC20/extensions /IERC20Metadata.sol	af5c8a77965cc82c33b7ff844deb9826166 689e55dc037a7f2f790d057811990
@openzeppelin/contracts/access/Ownable.sol	a8e4e1ae19d9bd3e8b0a6d46577eec098c 01fbaffd3ec1252fd20d799e73393b



# **Findings Breakdown**



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



#### **ST - Stops Transactions**

Criticality	Critical
Location	contracts/token.sol#L313
Status	Unresolved

#### Description

The buy and sell transactions are initially disabled for all users. The owner can enable the transactions for all users. Once the transactions are enabled the owner will not be able to disable them again.

```
if (isBuy || isSell) {
    require(tradingStatus, "Trading is not enabled yet!");
```

#### Recommendation

The team should carefully manage the private keys of the owner's account. We strongly recommend a powerful security mechanism that will prevent a single user from accessing the contract admin functions. Some suggestions are:

- Introduce a multi-sign wallet so that many addresses will confirm the action.
- Introduce a governance model where users will vote about the actions.



### **L04 - Conformance to Solidity Naming Conventions**

Criticality	Minor / Informative
Location	contracts/token.sol#L38,67,102,140,149,158,167,176,186,187,200,201,2 13,222,233,234,246,266,267,273,406,417,431,450
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.



```
function WETH() external pure returns (address);
uint256 private constant _totalSupply = 1e7 * 1e18
address public TreasuryWallet = 0x74Adf47aD22a9C95EE58A6D956FA58924D697E0F
address _newTreasury
uint256 _mb
uint256 _ms
uint256 _mt
uint256 _lpTax
uint256 _TreasuryTax
uint256 _sc
uint256 _db
uint256 _newAmount
address _wallet
...
```

#### 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	Visibility	Mutability	Modifiers
DexFactory	Interface			
	createPair	External	✓	-
DexRouter	Interface			
	factory	External		-
	WETH	External		-
	addLiquidityETH	External	Payable	-
	swapExactTokensForETHSupportingFee OnTransferTokens	External	✓	-
SCB	Implementation	ERC20, Ownable		
		Public	✓	ERC20
	enableTrading	External	✓	onlyOwner
	setTreasuryWallet	External	✓	onlyOwner
	setMaxBuy	External	<b>✓</b>	onlyOwner
	setMaxSell	External	<b>✓</b>	onlyOwner
	setMaxTx	External	✓	onlyOwner
	setMaxWallet	External	✓	onlyOwner
	setBuyTaxes	External	✓	onlyOwner



	setSellTaxes	External	✓	onlyOwner
	setSellCooldown	External	✓	onlyOwner
	setDeadBlocks	External	1	onlyOwner
	setTransferFees	External	1	onlyOwner
	setSwapTokensAtAmount	External	1	onlyOwner
	toggleSellCooldown	External	1	onlyOwner
	toggleSwapping	External	1	onlyOwner
	setWhitelistStatus	External	✓	onlyOwner
	checkWhitelist	External		-
	_takeTax	Internal	✓	
	_transfer	Internal	✓	
	internalSwap	Internal	1	
	swapAndLiquify	Internal	✓	
	swapToETH	Internal	✓	
	addLiquidity	Private	1	
	withdrawStuckETH	External	1	onlyOwner
	withdrawStuckTokens	External	1	onlyOwner
		External	Payable	-
Context	Implementation			
	_msgSender	Internal		
	_msgData	Internal		



SafeMath	Library			
	tryAdd	Internal		
	trySub	Internal		
	tryMul	Internal		
	tryDiv	Internal		
	tryMod	Internal		
	add	Internal		
	sub	Internal		
	mul	Internal		
	div	Internal		
	mod	Internal		
	sub	Internal		
	div	Internal		
	mod	Internal		
IERC20	Interface			
	totalSupply	External		-
	balanceOf	External		-
	transfer	External	✓	-
	allowance	External		-
	approve	External	<b>✓</b>	-
	transferFrom	External	✓	-

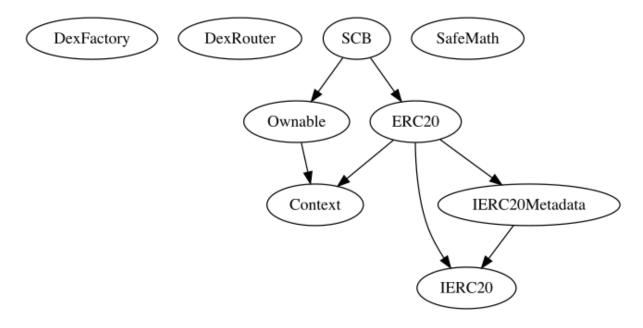


ERC20	Implementation	Context, IERC20, IERC20Meta data		
		Public	✓	-
	name	Public		-
	symbol	Public		-
	decimals	Public		-
	totalSupply	Public		-
	balanceOf	Public		-
	transfer	Public	✓	-
	allowance	Public		-
	approve	Public	✓	-
	transferFrom	Public	✓	-
	increaseAllowance	Public	✓	-
	decreaseAllowance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



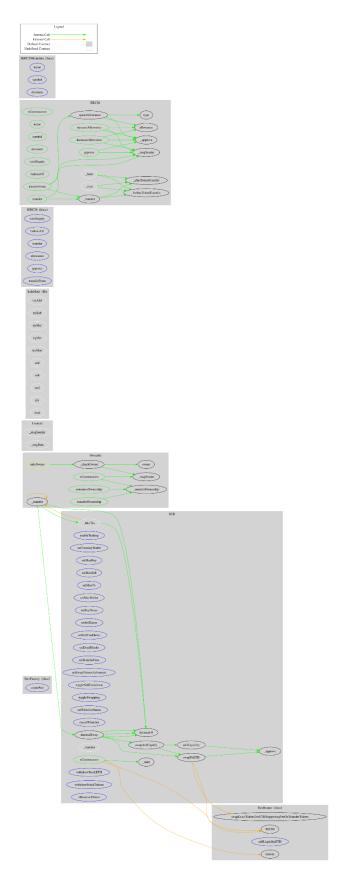
	name	External		-
	symbol	External		-
	decimals	External		-
Ownable	Implementation	Context		
		Public	1	-
	owner	Public		-
	_checkOwner	Internal		
	renounceOwnership	Public	✓	onlyOwner
	transferOwnership	Public	1	onlyOwner
	_transferOwnership	Internal	✓	

# **Inheritance Graph**





# Flow Graph





## **Summary**

Seismic contract implements a token mechanism. This audit investigates security issues, business logic concerns, and potential improvements. Seismic 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. There is also a limit of max 22% buy/sell fees and 11% transfer fees.

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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.

