Cyberscope

*A **TAC Security** Company*

Audit Report

Utopia Token

October 2025

Network BSC

Address 0xd83C128e7498bE555845A6dc331A99E1524C1777

Audited by © cyberscope

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	Mints Tokens	Passed
●	BT	Burns Tokens	Passed
●	BC	Blacklists Addresses	Passed

Diagnostics

● Critical   ● Medium   ● Minor / Informative

Severity	Code	Description	Status
●	PLPI	Potential Liquidity Provision Inadequacy	Unresolved
●	L16	Validate Variable Setters	Unresolved

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Risk Classification

The criticality of findings in Cyberscope's smart contract audits is determined by evaluating multiple variables. The two primary variables are:

1. **Likelihood of Exploitation**: This considers how easily an attack can be executed, including the economic feasibility for an attacker.
2. **Impact of Exploitation**: This assesses the potential consequences of an attack, particularly in terms of the loss of funds or disruption to the contract's functionality.

Based on these variables, findings are categorized into the following severity levels:

1. **Critical**: Indicates a vulnerability that is both highly likely to be exploited and can result in significant fund loss or severe disruption. Immediate action is required to address these issues.
2. **Medium**: Refers to vulnerabilities that are either less likely to be exploited or would have a moderate impact if exploited. These issues should be addressed in due course to ensure overall contract security.
3. **Minor**: Involves vulnerabilities that are unlikely to be exploited and would have a minor impact. These findings should still be considered for resolution to maintain best practices in security.
4. **Informative**: Points out potential improvements or informational notes that do not pose an immediate risk. Addressing these can enhance the overall quality and robustness of the contract.

Severity	Likelihood / Impact of Exploitation
● Critical	Highly Likely / High Impact
● Medium	Less Likely / High Impact or Highly Likely/ Lower Impact
● Minor / Informative	Unlikely / Low to no Impact

Review

Contract Name	Utopia
Explorer	https://bscscan.com/address/0xd83c128e7498be555845a6dc331a99e1524c1777
Symbol	UTOPIA
Decimals	18
Total Supply	1,000,000,000
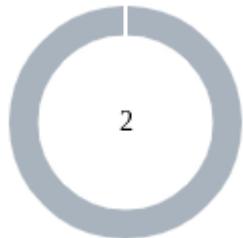
Audit Updates

Initial Audit	30 Oct 2025

Source Files

Filename	SHA256
UtopiaToken.sol	78942fff0feaf8f6901a3408cd09bf66e5c96fd811b0351959b33d03419b0804

Findings Breakdown

	Critical	0
	Medium	0
	Minor / Informative	2

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

PLPI - Potential Liquidity Provision Inadequacy

Criticality	Minor / Informative
Location	UtopiaToken.sol#L178
Status	Unresolved

Description

The contract operates under the assumption that liquidity is consistently provided to the pair between the contract's token and the native currency. However, there is a possibility that liquidity is provided to a different pair. This inadequacy in liquidity provision in the main pair could expose the contract to risks. Specifically, during eligible transactions, where the contract attempts to swap tokens with the main pair, a failure may occur if liquidity has been added to a pair other than the primary one. Consequently, transactions triggering the swap functionality will result in a revert.

```Shell
function swapTokensForEth(uint256 tokenAmount)
private {
...
dexRouter.swapExactTokensForETHSupportingFeeOnTran
sferTokens(
tokenAmount,
0,
path,
address(this),
block.timestamp
);

}
```

Recommendation

The team is advised to implement a runtime mechanism to check if the pair has adequate liquidity provisions. This feature allows the contract to omit token swaps if the pair does not have adequate liquidity provisions, significantly minimizing the risk of potential failures.

Furthermore, the team could ensure the contract has the capability to switch its active pair in case liquidity is added to another pair.

Additionally, the contract could be designed to tolerate potential reverts from the swap functionality, especially when it is a part of the main transfer flow. This can be achieved by executing the contract's token swaps in a non-reversible manner, thereby ensuring a more resilient and predictable operation.

L16 - Validate Variable Setters

Criticality	Minor / Informative
Location	UtopiaToken.sol#L100,101
Status	Unresolved

Description

The contract performs operations on variables that have been configured on user-supplied input. These variables are missing of proper check for the case where a value is zero. This can lead to problems when the contract is executed, as certain actions may not be properly handled when the value is zero.

```Shell
minerAddress = minerAddress_

marketingAddress = marketingAddress_
```

Recommendation

By adding the proper check, the contract will not allow the variables to be configured with zero value. This will ensure that the contract can handle all possible input values and avoid unexpected behavior or errors. Hence, it can help to prevent the contract from being exploited or operating unexpectedly.

Functions Analysis

Contract	Type	Bases		
	Function Name	Visibility	Mutability	Modifiers
UtopiaMiner	Implementation	IUtopiaMiner, Ownable, ReentrancyGuard		
		Public	✓	Ownable
		External	Payable	-
	initialize	External	Payable	onlyOwner
	beanRewards	External		-
	calculateBoneSell	Public		-
	calculateBoneBuy	Public		-
	calculateBoneBuySimple	External		-
	getBalance	External		-
	getMyExplorers	External		-
	getMyBones	Public		-
	getBonesSinceLastHatch	Public		-
	getDailyBoneRewards	External		-
	compoundExplorers	External	✓	nonReentrant onlyInitialized whenTradingAllowed
	hireExplorers	External	Payable	nonReentrant onlyInitialized whenTradingAllowed
	collectRewards	External	✓	nonReentrant onlyInitialized

				whenTradingAll owed
	setTradingState	External	✓	onlyOwner
	setToken	External	✓	onlyOwner
	setMinimumTokenBalance	External	✓	onlyOwner
	_compoundExplorers	Private	✓	
	calculateTrade	Private		
	calculateDevelopmentFee	Private		
	isTradingOpen	Private		
	min	Private		
IDexRouter	Interface			
	factory	External		-
	WETH	External		-
	swapExactTokensForETHSupportingFee OnTransferTokens	External	✓	-
	addLiquidityETH	External	Payable	-
IDexFactory	Interface			
	createPair	External	✓	-
UtopiaToken	Implementation	ERC20, ERC20Burna ble, Ownable		
		Public	✓	ERC20 Ownable
		External	Payable	-
	_update	Internal	✓	

	swapBack	Private	✓	lockTheSwap
	swapTokensForEth	Private	✓	
	isExcludedFromFees	External		-
	setSwapTokensAtAmount	External	✓	onlyOwner
	setMinerAddress	External	✓	onlyOwner
	setMarketingAddress	External	✓	onlyOwner
	setExcludedFromFee	External	✓	onlyOwner
	setMinerFee	External	✓	onlyOwner
	setMarketingFee	External	✓	onlyOwner
IUtopiaMiner	Interface			
	initialize	External	Payable	-
	setTradingState	External	✓	-
	setToken	External	✓	-
	setMinimumTokenBalance	External	✓	-
	compoundExplorers	External	✓	-
	hireExplorers	External	Payable	-
	collectRewards	External	✓	-
	beanRewards	External		-
	calculateBoneSell	External		-
	calculateBoneBuy	External		-
	calculateBoneBuySimple	External		-
	getBalance	External		-
	getMyExplorers	External		-
	getMyBones	External		-

	getBonesSinceLastHatch	External		-
	getDailyBoneRewards	External		-

Summary

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

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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.

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The Cyberscope team

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