



Cyberscope

# Audit Report

## **BlockATM**

June 2023

Audited by © cyberscope

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# Review

## Audit Updates

Initial Audit	24 May 2023 <a href="https://github.com/cyberscope-io/audits/blob/main/batm/v1/audit.pdf">https://github.com/cyberscope-io/audits/blob/main/batm/v1/audit.pdf</a>
Corrected Phase 2	08 Jun 2023 <a href="https://github.com/cyberscope-io/audits/blob/main/batm/v2/audit.pdf">https://github.com/cyberscope-io/audits/blob/main/batm/v2/audit.pdf</a>
Corrected Phase 3	10 Jun 2023

## Source Files

Filename	SHA256
BlockATM.sol	61d00765dbb6aaa3274922b6a0b295ec92960aeca01e25173501e5e9966ceed8
BlockATMCustomer.sol	5556fb4311d14a61cb1ff01afe57a0e9f3e53b477d9fa54d59c6cf155a57489a
BlockCommon.sol	1624414ff7e14158c7524ca790c541ef80de79dc2a664ac6d8d610640a45c670
BlockOrder.sol	1c9dc2413ec1214bf047a52866a1b1fc2a12f6149a17b9d32500128a4f072280
BlockPlatform.sol	be11d5b13ffbd41331df3160f11a30e82527bb2b7f9c5cb13447ddd7b2401680
BlockPlatformStandard.sol	1f374e28659da11ea2090fc3f2e3b81567e09c485a58f702962ca05bfe3b88c6

**BlockRecharge.sol**

```
b3f7e9f11d00bb48dc15af221608e5d9e7bbf3e416d6e5276bd6fc1c  
0c0c83b2
```

# Introduction

The BlockATM ecosystem consists of four distinct contracts: BlockATM, BlockATMCustomer, BlockOrder, and BlockRecharge. The BlockATM contract serves as an automated teller machine for cryptocurrencies, enabling users to transfer ERC20 tokens and Ether (ETH) to a designated withdrawal address. The BlockATMCustomer contract is designed for customers of the BlockATM system, allowing them to transfer ERC20 tokens and subsequently withdraw them to specified addresses. BlockOrder facilitates the transfer of ERC20 tokens associated with orders or specific transactions to a designated withdrawal address. Lastly, BlockRecharge offers the same functionality as the BlockOrder contract. These contracts provide various features and functionality related to token transfers and withdrawals, with the contract owners having control over withdrawal addresses, supported tokens, and other related settings.

## Roles

### BlockATM

#### Owner

The owner has authority over the following functions:

- `function modifyWithdrawAddress(address payable newAddress)`
- `function addCoinList(address _address)`
- `function closeCoinList(address newAddress)`

#### User

The user can interact with the following functions:

- `function transferToken(address token,uint256 amount,string memory orderId)`
- `function transferETH(string memory orderId)`
- `function getWithdrawAddress()`
- `function getCoinList(address _address)`

## BlockATMCustomer

### Owner

The owner has authority over the following functions:

- `function withdrawToken(uint256 amount,address withdrawAddress)`
- `function setActiveFlag()`

### User

The user can interact with the following functions:

- `function transferToken(uint256 amount,string memory orderId)`
- `function getTokenAddress()`
- `function getActiveFlag()`
- `function getWithdrawAddressList()`
- `function checkWithdrawAddress(address withdrawAddress)`
- `function getWithdrawAddressFlag(address withdrawAddress)`
- `function getOwnerAddressFlag(address ownerAddress))`
- `function getOwnerAddressList()`

## BlockOrder

### Owner

The owner has authority over the following functions:

- `function modifyWithdrawAddress(address payable _address)`
- `function addCoinList(address _address)`
- `function closeCoinList(address _address)`

### User

The user can interact with the following functions:

- `function transferToken(address token,uint256 amount,string memory orderId)`
- `function getWithdrawAddress()`
- `function getCoinList(address _address)`



## BlockRecharge

### Owner

The owner has authority over the following functions:

- `function modifyWithdrawAddress(address payable _address)`
- `function addCoinList(address _address)`
- `function closeCoinList(address _address)`

### User

The user can interact with the following functions:

- `function transferToken(address token,uint256 amount,string memory orderId)`
- `function getWithdrawAddress()`
- `function getCoinList(address _address)`

## Test Deployments

Contract	Explorer
BlockATM	<a href="https://testnet.bscscan.com/address/0x2a3950f22070C0a67a7750Da92dd0700062d5DE0">https://testnet.bscscan.com/address/0x2a3950f22070C0a67a7750Da92dd0700062d5DE0</a>
BlockATMCustomer	<a href="https://testnet.bscscan.com/address/0x88299418278D560A16D24d6b9cE89811D3AE2950">https://testnet.bscscan.com/address/0x88299418278D560A16D24d6b9cE89811D3AE2950</a>
BlockOrder	<a href="https://testnet.bscscan.com/address/0xd57Dfe308CF62E9D160A812B09C818A7efc320f2">https://testnet.bscscan.com/address/0xd57Dfe308CF62E9D160A812B09C818A7efc320f2</a>
BlockRecharge	<a href="https://testnet.bscscan.com/address/0x6d72Df79dF9c3aAC4ac6D77EFCc5A3E5401B3477">https://testnet.bscscan.com/address/0x6d72Df79dF9c3aAC4ac6D77EFCc5A3E5401B3477</a>

## Findings Breakdown

0

● Critical	0
● Medium	0
● Minor / Informative	0

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

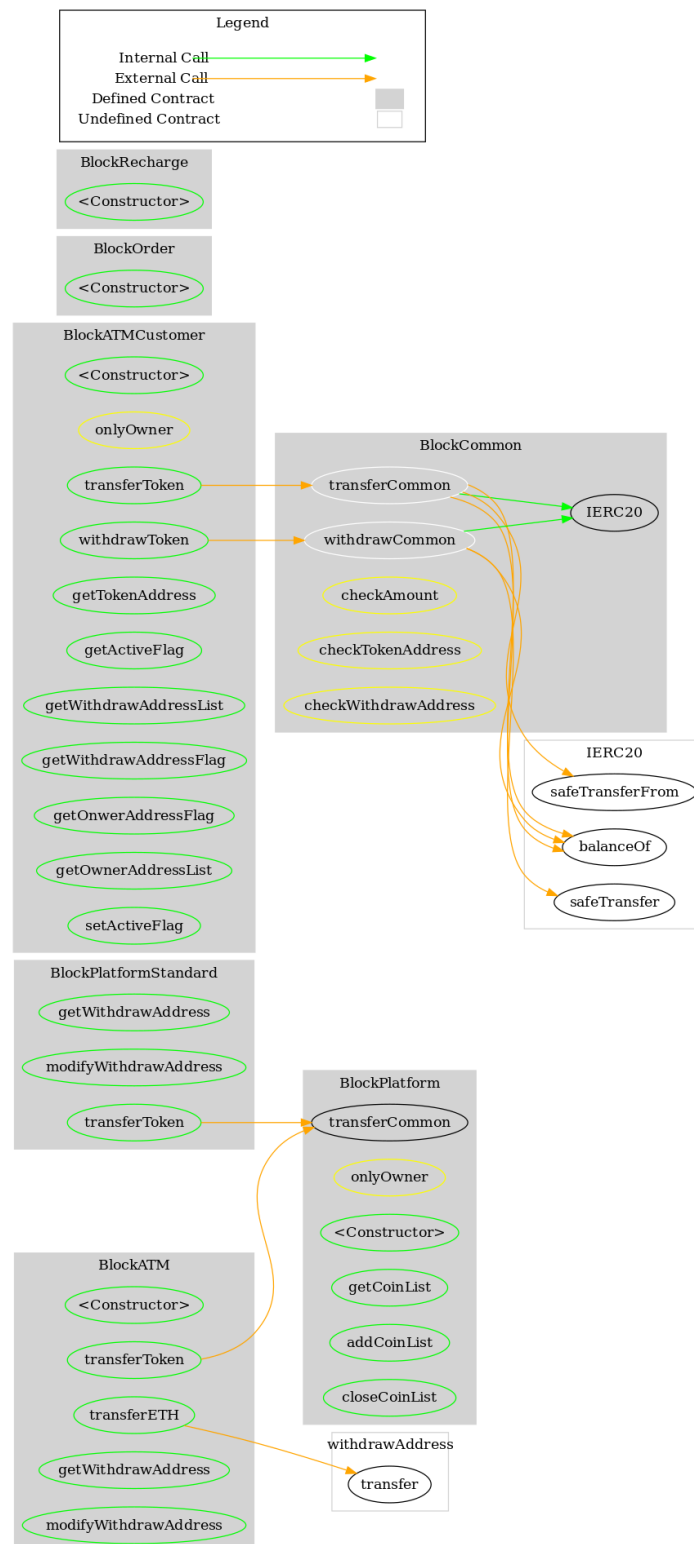
## Function Analysis

Contract	Type	Bases		
	Function Name	Visibility	Mutability	Modifiers
<b>BlockATM</b>	Implementation	BlockPlatform		
		Public	✓	checkWithdrawAddress
	transferToken	Public	✓	-
	transferETH	Public	Payable	checkAmount
	getWithdrawAddress	Public		-
	modifyWithdrawAddress	Public	✓	onlyOwner checkWithdrawAddress
<b>BlockATMCustomer</b>	Implementation	BlockCommon		
		Public	✓	checkTokenAddress
	transferToken	Public	✓	-
	withdrawToken	Public	✓	onlyOwner
	getTokenAddress	Public		-
	getActiveFlag	Public		-
	getWithdrawAddressList	Public		-
	getWithdrawAddressFlag	Public		-
	getOwnerAddressFlag	Public		-
	getOwnerAddressList	Public		-

	setActiveFlag	Public	✓	onlyOwner
<b>BlockCommon</b>	Implementation			
	transferCommon	Internal	✓	checkTokenAddress checkAmount
	withdrawCommon	Internal	✓	checkAmount checkTokenAddress checkWithdrawAddress
<b>BlockOrder</b>	Implementation	BlockPlatformStandard		
		Public	✓	checkWithdrawAddress
<b>BlockPlatform</b>	Implementation	BlockCommon		
		Public	✓	-
	getCoinList	Public		-
	addCoinList	Public	✓	onlyOwner checkTokenAddress
	closeCoinList	Public	✓	onlyOwner checkTokenAddress
<b>BlockPlatformStandard</b>	Implementation	BlockPlatform		
	getWithdrawAddress	Public		-
	modifyWithdrawAddress	Public	✓	onlyOwner checkWithdrawAddress
	transferToken	Public	✓	-

<b>BlockRecharge</b>	Implementation	BlockPlatformStandard		
		Public	✓	checkWithdrawAddress

# Flow Graph



## Summary

BlockATM contract implements a financial mechanism. This audit investigates security issues, business logic concerns, and potential improvements.



## Disclaimer

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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>