

Audit Report

ACG

June 2023

Network BSC

Address 0x5a1da94ddd7cd2cc390917467cbead125158d506

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



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Review

Contract Name	ACG
Compiler Version	v0.8.17+commit.8df45f5f
Optimization	200 runs
Explorer	https://bscscan.com/address/0x5a1da94ddd7cd2cc390917467 cbead125158d506
Address	0x5a1da94ddd7cd2cc390917467cbead125158d506
Network	BSC
Symbol	ACG
Decimals	18
Total Supply	1,000,000,000

Audit Updates

Initial Audit	23 May 2023
Corrected Phase 2	28 May 2023
Corrected Phase 3	05 Jun 2023
Corrected Phase 4	09 Jun 2023
Corrected Phase 5	10 Jun 2023



Source Files

Filename	SHA256
contracts/acg.sol	705ea96b78590c445e5b736c7d95502c71 23f3d7da8833fbffb6c17735f97ff3
contracts/contracts/access/Ownable.sol	42df7a70b8190e7c8e3aeb443aeacc2b23 b389b18fa2ce00e9eb60a367a2bb20
contracts/contracts/interfaces/IUniswapV2Factory.	3dd4c1f051cee242d1c81b3868d19d9837 06f47dc6d4e61c83e8645dab7b190f
contracts/contracts/interfaces/IUniswapV2Pair.sol	d031a0cf0541e16cc08a0772453796dcbf7 7727976822ac038dbea47e16171cb
contracts/contracts/interfaces/IUniswapV2Router0 1.sol	9e9232b0ab8af12bf698a622047a0057ab2 b5b068360e24c8599576a40653601
contracts/contracts/interfaces/IUniswapV2Router0 2.sol	add2f9ec336a24dfe0fcf25cd27fd11860fa 09f8e303867f5188b2b1769b31e4
contracts/contracts/token/ERC20/ERC20.sol	bce14c3fd3b1a668529e375f6b70ffdf9cef 8c4e410ae99608be5964d98fa701
contracts/contracts/token/ERC20/extensions/IERC 20Metadata.sol	af5c8a77965cc82c33b7ff844deb9826166 689e55dc037a7f2f790d057811990
contracts/contracts/token/ERC20/extensions/IERC 20Permit.sol	2919f8aa74c48a2fc38fff7875ebc9d1604e 9180f8c57416ba1ee589fe0dde60
contracts/contracts/token/ERC20/IERC20.sol	94f23e4af51a18c2269b355b8c7cf4db800 3d075c9c541019eb8dcf4122864d5
contracts/contracts/token/ERC20/SafeERC20.sol	1d489ce3f5dd4966c090782c7547f511289 68221f592301153c0644dfe862179
contracts/contracts/utils/Address.sol	8160a4242e8a7d487d940814e5279d934e 81f0436689132a4e73394bab084a6d



contracts/contracts/utils/Context.sol

1458c260d010a08e4c20a4a517882259a2 3a4baa0b5bd9add9fb6d6a1549814a



Findings Breakdown



Sev	rerity	Unresolved	Acknowledged	Resolved	Other
•	Critical	0	0	0	0
•	Medium	0	0	0	0
	Minor / Informative	0	0	0	0



Functions Analysis

Contract	Туре	Bases		
	Function Name	Visibility	Mutability	Modifiers
ACG	Implementation	ERC20, Ownable		
		Public	1	ERC20
	name	Public		-
	symbol	Public		-
	decimals	Public		-
	totalSupply	Public		-
	balanceOf	Public		-
		External	Payable	-
	_approve	Internal	✓	
	transfer	Public	✓	-
	allowance	Public		-
	approve	Public	✓	-
	getBNBBalance	Public		-
	getErc20TokenFeeBalance	Public		-
	getErc20TokensBalance	Public		-
	_checkTokenWBNBPair	Internal		
	setUSDTAddress	External	✓	onlyOwner
	setSpecialAddress	External	✓	onlyOwner
	setLiquidityPoolToUse	External	✓	onlyOwner



approveRouterToSpendTokens	External	✓	onlyOwner
setSwapRouter	External	✓	onlyOwner
setSwapThresholdLimit	External	✓	onlyOwner
setPenaltyTxAmount	External	1	onlyOwner
setErc20TokenAddress	External	1	onlyOwner
setAntiBotStatus	External	✓	onlyOwner
setMaxBotSellCount	External	✓	onlyOwner
setBotSellTimeLimit	External	✓	onlyOwner
setOperationWallet	External	✓	onlyOwner
setMarketingWallet	External	1	onlyOwner
setPoolsLeaderboardWallet	External	✓	onlyOwner
setCommunityWallet	External	✓	onlyOwner
setTreasuryOneWallet	External	✓	onlyOwner
setTreasuryTwoWallet	External	1	onlyOwner
setPenaltyWallet	External	1	onlyOwner
_updateFees	Private	✓	
_calculateTotalNewFees	Internal		
setOperationFeePercent	External	✓	onlyOwner feesNotBeingS et
setMarketingFeePercent	External	✓	onlyOwner feesNotBeingS et
setLiquidityFeePercent	External	✓	onlyOwner feesNotBeingS et
setPoolsLeaderboardFeePercent	External	✓	onlyOwner feesNotBeingS et



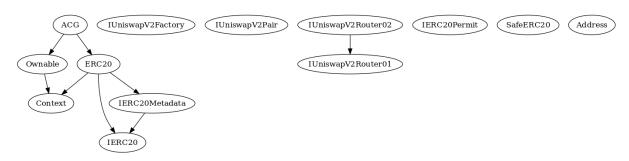
setCommunityFeePercent	External	1	onlyOwner feesNotBeingS et
setTreasuryOneFeePercent	External	✓	onlyOwner feesNotBeingS et
setTreasuryTwoFeePercent	External	✓	onlyOwner feesNotBeingS et
setPenaltyFeePercent	External	✓	onlyOwner feesNotBeingS et
_removeAllFees	Private	✓	
_restoreAllFees	Private	✓	
excludeFromFee	Public	✓	onlyOwner
includeInFee	Public	✓	onlyOwner
setSwapAndLiquifyEnabled	Public	✓	onlyOwner
_calculateFees	Private		
_calculateBuyFee	Private		
_calculateSellFee	Private		
_calculateFee	Private		
_getCurrentSupply	Private		
_getRate	Private		
tokenFromReflection	Public		-
_reflectFee	Private	✓	
_getValues	Private		
_getTValues	Private		
_getRValues	Private		
_calculateERC20TokenFees	Private		



_calculateLiquidityTokenFees	Private		
_takeFees	Private	1	
_beforeTokenTransfer	Internal		
_checkCanTransfer	Internal		
_checkAntibotStatus	Internal		
_transfer	Internal	✓	
_tokenTransfer	Private	✓	
_transferStandard	Private	✓	
_reflectBot	Private	✓	
_swapAndGetFees	Private	✓	lockTheSwap
_swapAndLiquify	Private	✓	
_checkRouterTokenAllowance	Internal		
_checkRouterAllowanceAndGetToken	Internal		
_checkPoolAndSwapAndAddLiquidity	Private	✓	
_swapAndAddLiquidityToERC20Pool	Private	✓	
_addLiquidityToERC20Pool	Private	✓	
_calculateAvailableFeesAndTransfer	Private	✓	
_transferFeesToWallet	Private	✓	
_swapTokensForBnb	Private	✓	
_addLiquidity	Private	✓	
_swapTokensForTokens	Private	✓	
manualBNBSwap	External	✓	onlyOwner
manualERC20Swap	External	✓	onlyOwner lockTheSwap

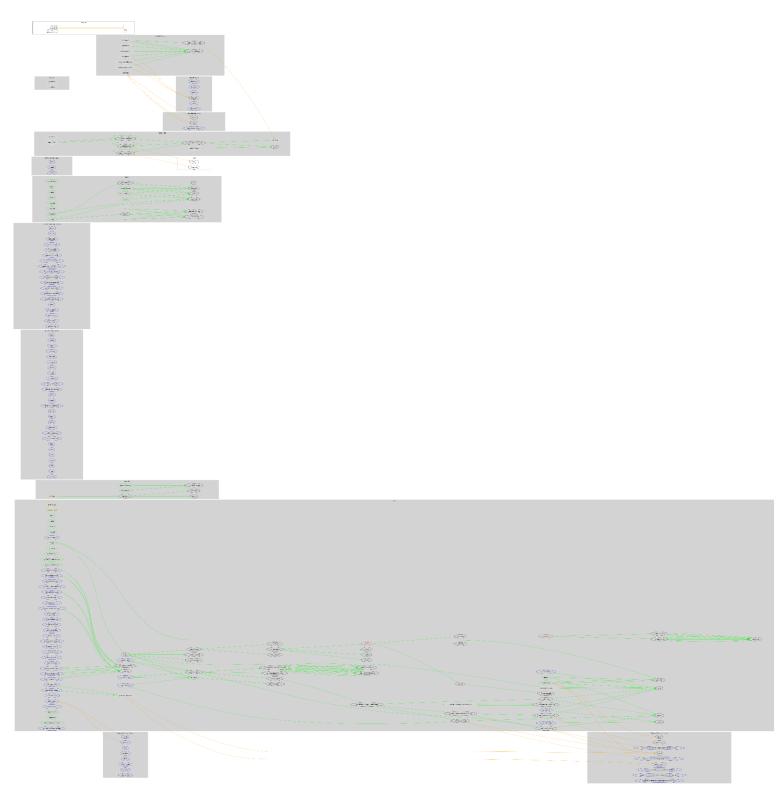
autoERC20Swap	External	✓	onlyOwner
recoverBNB	External	✓	onlyOwner
recoverBNBToWallet	External	✓	onlyOwner
recoverERC20Tokens	External	✓	onlyOwner
recoverERC20TokensToWallet	External	1	onlyOwner

Inheritance Graph





Flow Graph



Summary

ACG contract implements a token mechanism. This audit investigates security issues, business logic concerns, and potential improvements. ACG is an interesting project that has a friendly and growing community. The Smart Contract analysis reported no compiler error 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 15% buy fees and 25% if the transferred amount is a specific threshold that is defined by the contract owner. Lastly, the contract has an antibot throttling mechanism that can prevent the transfers of up to 100 blocks.

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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.

