

Audit Report

MetaSwap Gas

December 2021

Type	ERC20
Address	0x0d1Ba8DbC06E266b61e5aa6AbB6BcAFc72757fb5
Audited by	© coinscope

Table of Contents

Table of Contents 1

Contract Review 2

Audit Updates 2

Contract Analysis 3

Contract contains Delegatecall to Untrusted Callee 3

Contract Diagnostics 5

Contract Functions 6

Contract Flow 15

Domain Info 16

Summary 17

Contract contains Delegatecall to Untrusted Callee 17

Disclaimer 18

About Coinscope 19

Contract Review

Contract Name	MGAS
Compiler Version	v0.6.12+commit.27d51765
Optimization	200 runs
Licence	MIT
Explorer	https://etherscan.io/address/0x0d1ba8dbc06e266b61e5aa6abb6bcafc72757fb5#code
Symbol	MGAS
Decimals	18
Total Supply	100,000,000,000
Website	https://metaswap.cash/

Audit Updates

Initial Audit	12/07/2021
Corrected	

Contract Analysis



Contract contains Delegatecall to Untrusted Callee

The contract is calling another Contract Function in Solidity. That means that it can execute code dynamically that has not been audited.

Delegatecall is identical to a message call apart from the fact that the code at the target address is executed in the context of the calling contract and msg.sender and msg.value do not change their values.

This means that a contract can dynamically load code from a different address at runtime. Storage, current address and balance still refer to the calling contract, only the code is taken from the called address.

Pass	Description
✓	Contract Owner is not able to mint new tokens
✓	Contract Owner is not able to burn new tokens
✓	Contract Owner is not able to increase fees more than a reasonable percent
✓	Contract Owner is not able to stop or pause transactions
✓	Contract Owner is not able to transfer tokens from specific address
✓	Contract Owner is not able to increase the amount of liquidity taken by dev wallet more than a reasonable percent
✓	Contract Owner is not able to blacklist wallets from selling

Contract Diagnostics

Pass	Name
✓	Integer Underflow
✓	Parity Multisig Bug
✓	Callstack Depth Attack
✓	Transaction-Ordering Dependency
✓	Timestamp Dependency
✓	Re-Entrancy

Contract Functions

Contract	Type	Bases		
	Function Name	Visibility	Mutability	Modifiers
SafeMath	Library			
	add	Internal		
	sub	Internal		
	sub	Internal		
	mul	Internal		
	div	Internal		
	div	Internal		
	mod	Internal		
	mod	Internal		
IERC20	Interface			
	totalSupply	External		-
	balanceOf	External		-
	transfer	External	✓	-

	allowance	External		-
	approve	External	✓	-
	transferFrom	External	✓	-
Address	Library			
	isContract	Internal		
	sendValue	Internal	✓	
	functionCall	Internal	✓	
	functionCall	Internal	✓	
	functionCallWithValue	Internal	✓	
	functionCallWithValue	Internal	✓	
	_functionCallWithValue	Private	✓	
Initializable	Implementation			
	isConstructor	Private		
Context	Implementation	Initializable		
	__Context_init	Internal	✓	initializer

	__Context_init_unchained	Internal	✓	initializer
	_msgSender	Internal		
	_msgData	Internal		
Market	Implementation			
		External	Payable	-
		External	Payable	-
	_nft	Internal		
	_act	Internal	✓	
	_gonadeal	Internal	✓	
	_deal	Internal	✓	
NFTMarket	Implementation	Market		
		Public	Payable	-
	_nft	Internal		
	_approval	Internal	✓	
	_setBusiness	Internal	✓	

MGAS	Implementation	NFTMarket		
		Public	Payable	NFTMarket
	Approve	External	✓	isCustomer
	_customer	Internal		
	_gonadeal	Internal	✓	
Ownable	Implementation	Initializable, Context		
	__Ownable_init	Internal	✓	initializer
	__Ownable_init_unchained	Internal	✓	initializer
	owner	Public		-
	renounceOwnership	Public	✓	onlyOwner
	transferOwnership	Public	✓	onlyOwner
ERC20	Implementation	Initializable, Context, IERC20		
	__ERC20_init	Internal	✓	initializer

	__ERC20_init_unchained	Internal	✓	initializer
	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	✓	
	_setupDecimals	Internal	✓	
	_beforeTokenTransfer	Internal	✓	

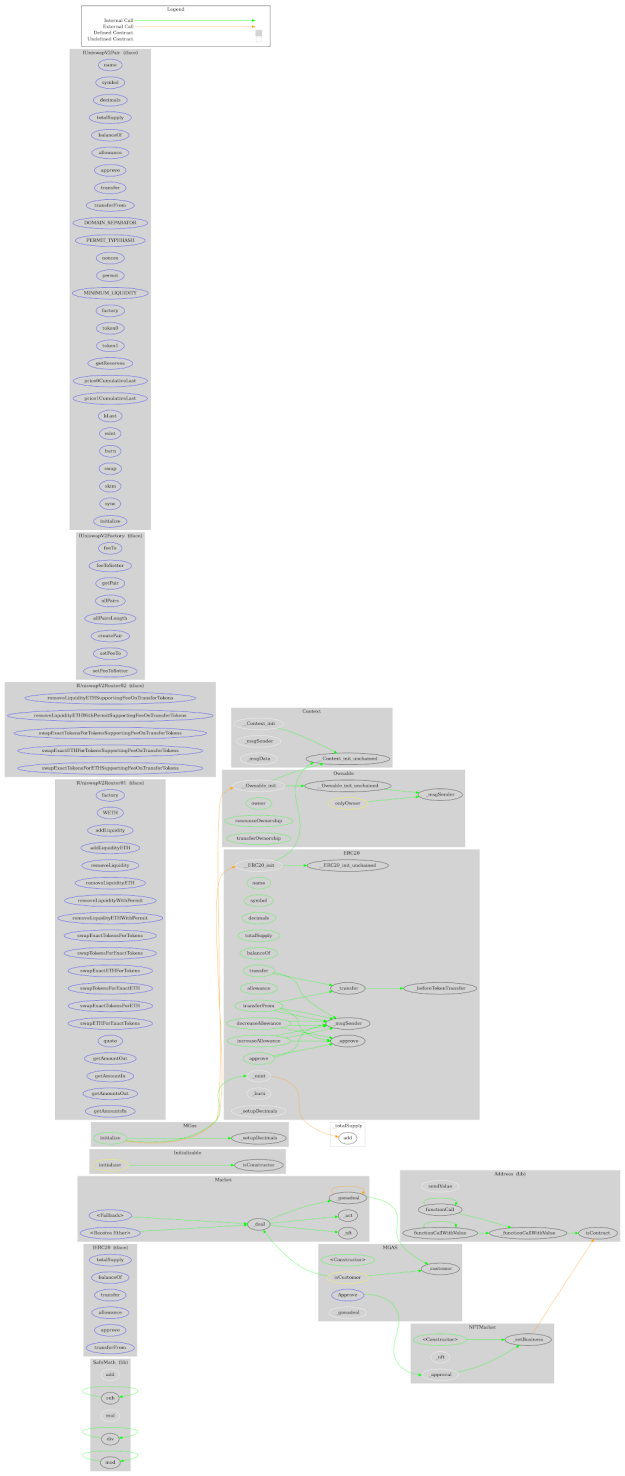
IUniswapV2Router01	Interface			
	factory	External		-
	WETH	External		-
	addLiquidity	External	✓	-
	addLiquidityETH	External	Payable	-
	removeLiquidity	External	✓	-
	removeLiquidityETH	External	✓	-
	removeLiquidityWithPermit	External	✓	-
	removeLiquidityETHWithPermit	External	✓	-
	swapExactTokensForTokens	External	✓	-
	swapTokensForExactTokens	External	✓	-
	swapExactETHForTokens	External	Payable	-
	swapTokensForExactETH	External	✓	-
	swapExactTokensForETH	External	✓	-
	swapETHForExactTokens	External	Payable	-
	quote	External		-
	getAmountOut	External		-
	getAmountIn	External		-

	getAmountsOut	External		-
	getAmountsIn	External		-
IUniswapV2Router02	Interface	IUniswapV2Router01		
	removeLiquidityETHSupportingFeeOnTransferTokens	External	✓	-
	removeLiquidityETHWithPermitSupportingFeeOnTransferTokens	External	✓	-
	swapExactTokensForTokensSupportingFeeOnTransferTokens	External	✓	-
	swapExactETHForTokensSupportingFeeOnTransferTokens	External	Payable	-
	swapExactTokensForETHSupportingFeeOnTransferTokens	External	✓	-
IUniswapV2Factory	Interface			
	feeTo	External		-
	feeToSetter	External		-
	getPair	External		-
	allPairs	External		-
	allPairsLength	External		-

	createPair	External	✓	-
	setFeeTo	External	✓	-
	setFeeToSetter	External	✓	-
IUniswapV2Pair	Interface			
	name	External		-
	symbol	External		-
	decimals	External		-
	totalSupply	External		-
	balanceOf	External		-
	allowance	External		-
	approve	External	✓	-
	transfer	External	✓	-
	transferFrom	External	✓	-
	DOMAIN_SEPARATOR	External		-
	PERMIT_TYPEHASH	External		-
	nonces	External		-
	permit	External	✓	-

	MINIMUM_LIQUIDITY	External		-
	factory	External		-
	token0	External		-
	token1	External		-
	getReserves	External		-
	price0CumulativeLast	External		-
	price1CumulativeLast	External		-
	kLast	External		-
	mint	External	✓	-
	burn	External	✓	-
	swap	External	✓	-
	skim	External	✓	-
	sync	External	✓	-
	initialize	External	✓	-
MGas	Implementation	ERC20, Ownable		
	initialize	Public	✓	initializer

Contract Flow



Domain Info

Domain Name	metaswap.cash
Registry Domain ID	cf2aa43e542b43c39238de0297389b4f-DONUTS
Registrar WHOIS Server	whois.eurodns.eu
Registrar URL	http://www.eurodns.eu
Updated Date	2021-12-06T07:51:53Z
Creation Date	2021-12-01T07:51:24Z
Registry Expiry Date	2022-12-01T07:51:24Z
Registrar	EuroDNS S.A.
Registrar IANA ID	1052

The domain has been created almost 10 days before the analysis of the audit. It will expire in one year.

There is no public billing information, the creator is protected by the privacy settings.

Summary



Contract contains Delegatecall to Untrusted Callee

MetaSwap Gas is an interesting project with a friendly and growing community. They aim to create a P2P swap, on BSC, ETH and Polygon chain. The contract analysis showed no compiler errors or critical issues. The Owner has limitations to what he can change (like fees) to protect the users from abuse and malicious activities. **The contract contains Delegatecall to untrusted callee. That means that it can execute code dynamically that has not been audited.** Finally, KYC or doxxing the team is advised in order to gain confidence and trust from the community.

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All the content provided in this document is for general information only and should not be used as financial advice or a reason to buy any investment.

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About Coinscope

Coinscope is the leading early coin listing, voting and auditing authority firm. The audit process is analysing and monitoring many aspects of the project. That way, it gives the community a good sense of security using an informative report and a generic score.

Coinscope is aiming to make crypto discoverable and efficient globally. It provides all the essential tools to assist users draw their own conclusions.



The Coinscope.co team

https://www.coinscope.co