

Audit Report **LasMeta**

August 2022

Type ERC20

Network ETH

Address 0x6F66f3012E0210baBD2384e31863C30f70356237

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Contract Review

Contract Name	LASM
Compiler Version	v0.8.11+commit.d7f03943
Optimization	200 runs
Licence	None
Explorer	https://etherscan.io/address/0x6F66f3012E0210baBD2 384e31863C30f70356237
Symbol	LASM
Decimals	18
Total Supply	800,000,000
Domain	https://lasmeta.io

Source Files

Filename	SHA256
contract.sol	047d069f58ff40649835032aafab2bebfde42b543ade39 5489e951726b5fb0ce

Audit Updates

Initial Audit	13th February 2022
Corrected Phase 1	5th May 2022
Corrected Phase 2	17th August 2022



Contract Analysis

CriticalMediumMinorPass

Severity	Code	Description
•	ST	Contract Owner is not able to stop or pause transactions
•	OCTD	Contract Owner is not able to transfer tokens from specific address
•	OTUT	Owner Transfer User's Tokens
•	ELFM	Contract Owner is not able to increase fees more than a reasonable percent (25%)
•	ULTW	Contract Owner is not able to increase the amount of liquidity taken by dev wallet more than a reasonable percent
•	MT	Contract Owner is not able to mint new tokens
•	ВТ	Contract Owner is not able to burn tokens from specific wallet
•	ВС	Contract Owner is not able to blacklist wallets from selling



ELFM - Exceed Limit Fees Manipulation

Criticality	minor
Location	contract.sol#L1477,1488,1499

Description

The contract owner has the authority to increase over the allowed limit of 25%. The owner may take advantage of it by calling the setTeamDevFee function with the MAXIMUM_TRANSFER_TAX_RATE. The max transaction fee is 30%.

```
function setTeamDevFee(uint256 value) external onlyOwner{
    require(value <= MAXIMUM_TRANSFER_TAX_RATE, "Invalid percentage");

function setRewardsFee(uint256 value) external onlyOwner{
    require(value <= MAXIMUM_TRANSFER_TAX_RATE, "Invalid percentage");

function setLiquiditFee(uint256 value) external onlyOwner{
    require(value <= MAXIMUM_TRANSFER_TAX_RATE, "Invalid percentage");</pre>
```

Recommendation

The contract could embody a check for the maximum acceptable transaction fee.

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. That risk can be prevented by temporarily locking the contract or renouncing ownership.



BC - Blacklisted Contracts

Criticality	medium
Location	contract.sol#L1519

Description

The contract owner has the authority to stop contracts from transactions. The owner may take advantage of it by calling the blacklistAddress function.

```
require(!_isBlacklisted[from] && !_isBlacklisted[to], 'Blacklisted address');
```

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. That risk can be prevented by temporarily locking the contract or renouncing ownership.



Contract Diagnostics

CriticalMediumMinor

Severity	Code	Description
•	ZD	Zero Division
•	L01	Public Function could be Declared External
•	L04	Conformance to Solidity Naming Conventions
•	L05	Unused State Variable
•	L09	Dead Code Elimination
•	L12	Using Variables before Declaration
•	L14	Uninitialized Variables in Local Scope
•	L15	Local Scope Variable Shadowing



ZD - Zero Division

Criticality	minor
Location	contract.sol#L1929

Description

The contract is using variables that may be set to zero as denominators. As a result, the transactions will revert.

The variable totalFees can be set to zero.

```
if( canSwap &&
    !swapping &&
    !automatedMarketMakerPairs[from] &&
    from != owner() &&
    to != owner() &&
        swapAndLiquifyEnabled
    ) {
        swapping = true;

        uint256 teamDevTokens =
contractTokenBalance.mul(teamFee).div(totalFees);
        sendToTeamDevAndBuyBackFee(teamDevTokens);
```

Recommendation

The contract should prevent those variables to be set to zero or should not allow them to execute the corresponding statements.



L01 - Public Function could be Declared External

Criticality	minor
Location	contract.sol#L931,1116,248,684,946,259,1131,387,613,1159,252,727,596,639,7 07,265,395,2448,1587,662,1173,2404,1578

Description

Public functions that are never called by the contract should be declared external to save gas.

```
operator
getAccountAtIndex
withdrawnDividendOf
approve
transferOperator
process
transferOwnership
size
increaseAllowance
...
```

Recommendation

Use the external attribute for functions never called from the contract.



L04 - Conformance to Solidity Naming Conventions

Criticality	minor
Location	contract.sol#L1454,1428,1983,1596,1098,1456,1103,1450,1441,1452,1159,1451,1173,1424,2072,1166,2359,1455,1449,1275,1791,1183,1444,1453

Description

Solidity defines a naming convention that should be followed. Rule exceptions:

- Allow constant variable name/symbol/decimals to be lowercase.
- Allow _ at the beginning of the mixed_case match for private variables and unused parameters.

```
development
manager
_owner
_amount
WETH
locked
airdrop
_account
_delegates
...
```

Recommendation

Follow the Solidity naming convention.

https://docs.soliditylang.org/en/v0.4.25/style-guide.html#naming-conventions.



L05 - Unused State Variable

Criticality	minor
Location	contract.sol#L980

Description

There are segments that contain unused state variables.

MAX_INT256

Recommendation

Remove unused state variables.



L09 - Dead Code Elimination

Criticality	minor
Location	contract.sol#L1026,1193

Description

Functions that are not used in the contract, and make the code's size bigger.

_transfer abs

Recommendation

Remove unused functions.



L12 - Using Variables before Declaration

Criticality	minor
Location	contract.sol#L1964

Description

The contract is using a variable before the declaration. This is usually happening either if it has not been declared yet or the variable has been declared in a different scope.

claims
lastProcessedIndex
iterations

Recommendation

The variables should be declared before any usage of them.



L14 - Uninitialized Variables in Local Scope

Criticality	minor
Location	contract.sol#L1964

Description

The are variables that are defined in the local scope and are not initialized.

lastProcessedIndex
claims
iterations

Recommendation

All the local scoped variables should be initialized.



L15 - Local Scope Variable Shadowing

Criticality	minor
Location	contract.sol#L1112,1183,1166,1159,1173

Description

The are variables that are defined in the local scope containing the same name from an upper scope.

```
_owner
_symbol
_name
```

Recommendation

The local variables should have different names from the upper scoped variables.



Contract Functions

Contract	Туре	Bases		
	Function Name	Visibility	Mutability	Modifiers
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		
IterableMappi ng	Library			
	get	Public		-
	getIndexOfKey	Public		-
	getKeyAtIndex	Public		-
	size	Public		-
	set	Public	1	-
	remove	Public	✓	-
Context	Implementation			
	_msgSender	Internal		
	_msgData	Internal		
Ownable	Implementation	Context		



	<constructor></constructor>	Public	1	-
	owner	Public		-
	_checkOwner	Internal		
	renounceOwnership	Public	1	onlyOwner
	transferOwnership	Public	1	onlyOwner
	_transferOwnership	Internal	1	
IERC20	Interface			
	totalSupply	External		-
	balanceOf	External		-
	transfer	External	1	-
	allowance	External		-
	approve	External	1	-
	transferFrom	External	1	-
IERC20Metad ata	Interface	IERC20		
	name	External		-
	symbol	External		-
	decimals	External		-
ERC20	Implementation	Context, IERC20, IERC20Met adata		
	<constructor></constructor>	Public	✓	-
	name	Public		-
	symbol	Public		-
	decimals	Public		-
	totalSupply	Public		-
	balanceOf	Public		-
	transfer	Public	1	-
	allowance	Public		-
	approve	Public	1	-
	transferFrom	Public	1	-
	increaseAllowance	Public	1	-



	decreaseAllowance	Public	✓	-
	_transfer	Internal	1	
	_mint	Internal	1	
	_burn	Internal	1	
	_approve	Internal	1	
	_spendAllowance	Internal	1	
	_beforeTokenTransfer	Internal	1	
	_afterTokenTransfer	Internal	✓	
ERC20Burnabl	Implementation	Context, ERC20		
	burn	Public	1	-
	burnFrom	Public	✓	-
SafeMathUint	Library			
	toInt256Safe	Internal		
SafeMathInt	Library			
	mul	Internal		
	div	Internal		
	sub	Internal		
	add	Internal		
	abs	Internal		
	toUint256Safe	Internal		
DividendPayin gTokenInterfa ce	Interface			
	dividendOf	External		-
	withdrawDividend	External	✓	-
DividendPayin gTokenOption alInterface	Interface			
	withdrawableDividendOf	External		-
	withdrawnDividendOf	External		-
	accumulativeDividendOf	External		-



DividendPayin gToken	Implementation	ERC20, Ownable, DividendPay ingTokenInt erface, DividendPay ingTokenOp tionalInterfa		
	<constructor></constructor>	Public	✓	ERC20
	distributeCAKEDividends	Public	✓	onlyOwner
	withdrawDividend	Public	✓	-
	_withdrawDividendOfUser	Internal	✓	
	dividendOf	Public		-
	withdrawableDividendOf	Public		-
	withdrawnDividendOf	Public		-
	accumulativeDividendOf	Public		-
	_transfer	Internal	1	
	_mint	Internal	✓	
	_burn	Internal	✓	
	_setBalance	Internal	✓	
II Injewen VOFe	Interface			
IUniswapV2Fa ctory	interrace			
	feeTo	External		-
	feeToSetter	External		-
	getPair	External		-
	allPairs	External		-
	allPairsLength	External		-
	createPair	External	✓	-
	setFeeTo	External	✓	-
	setFeeToSetter	External	✓	-
IUniswapV2Ro uter01	Interface			
	factory	External		-
	WETH	External		-



	addLiquidity	External	✓	-
	addLiquidityETH	External	Payable	-
	removeLiquidity	External	✓	-
	removeLiquidityETH	External	1	-
	removeLiquidityWithPermit	External	1	_
	removeLiquidityETHWithPermit	External	1	_
	swapExactTokensForTokens	External	√	_
	swapTokensForExactTokens	External	✓	_
	swapExactETHForTokens	External	Payable	_
	swapTokensForExactETH	External	√ dydbic	_
	swapExactTokensForETH	External	✓ ✓	_
		External	Payable	
	swapETHForExactTokens		rayable	-
	quote	External		-
	getAmountOut	External		-
	getAmountIn	External		-
	getAmountsOut	External		-
	getAmountsIn	External		-
IUniswapV2Ro	Interface	IUniswapV2		
uter02		Router01		
	removeLiquidityETHSupportingFeeO nTransferTokens	External	✓	-
	removeLiquidityETHWithPermitSupp ortingFeeOnTransferTokens	External	✓	-
	swapExactTokensForTokensSupporti ngFeeOnTransferTokens	External	✓	-
	swapExactETHForTokensSupporting FeeOnTransferTokens	External	Payable	-
	swapExactTokensForETHSupporting FeeOnTransferTokens	External	√	-
LASM	Implementation	ERC20, ERC20Burn able, Ownable		
	<constructor></constructor>	Public	✓	ERC20
	<receive ether=""></receive>	External	Payable	-
	burn	Public	✓	-



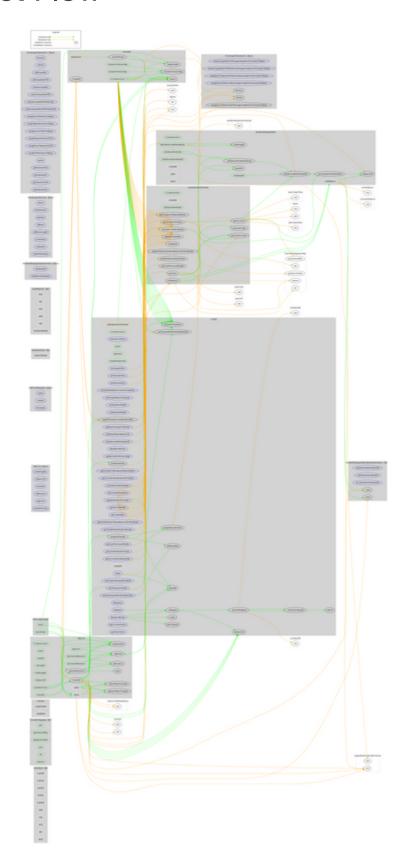
ope	erator	Public		-
trar	nsferOperator	Public	✓	onlyOwner
set	VestingSchedule	External	✓	onlyOwner
upo	dateDividendTracker	External	✓	onlyOwner
upo	dateUniswapV2Router	External	1	onlyOwner
exc	ludeFromFees	Public	1	onlyOperatorO rOwner
exc	ludeMultipleAccountsFromFees	External	✓	onlyOwner
set	SwapTokensAtAmount	External	✓	onlyOwner
set	TeamDevWallet	External	✓	onlyOwner
set	BuyBackWallet	External	1	onlyOwner
set	RewardsFee	External	1	onlyOwner
set	LiquiditFee	External	✓	onlyOwner
set	TeamDevFee	External	1	onlyOwner
set	AutomatedMarketMakerPair	External	✓	onlyOwner
blac	cklistAddress	External	1	onlyOwner
_se	tAutomatedMarketMakerPair	Private	✓	
upo	dateGasForProcessing	External	1	onlyOwner
upo	dateClaimWait	External	1	onlyOwner
get	ClaimWait	External		-
upo der	dateMinimumTokenBalanceForDivinds	External	1	onlyOwner
get	TotalDividendsDistributed	External		-
isEx	xcludedFromFees	External		-
with	ndrawableDividendOf	External		-
divi	dendTokenBalanceOf	External		-
exc	ludeFromDividends	External	✓	onlyOperatorC rOwner
get	AccountDividendsInfo	External		-
get	AccountDividendsInfoAtIndex	External		-
pro	cessDividendTracker	External	✓	-
clai	m	External	√	-
get	LastProcessedIndex	External		-
get	NumberOfDividendTokenHolders	External		-
_tra	nsfer	Internal	✓	
sen	dToTeamDevAndBuyBackFee	Private	1	



	setSwapAndLiquifyEnabled	External	✓	onlyOwner
	swapAndLiquify	Private	✓	
	swapTokensForEth	Private	✓	
	addLiquidity	Private	✓	
	sendDividends	Private	1	
	delegates	External		-
	delegate	External	1	-
	delegateBySig	External	✓	-
	getCurrentVotes	External		-
	getPriorVotes	External		-
	_delegate	Internal	✓	
	_moveDelegates	Internal	✓	
	_writeCheckpoint	Internal	1	
	safe32	Internal		
	getChainId	Internal		
LasmDividend Tracker	Implementation	Ownable, DividendPay ingToken		
	<constructor></constructor>	Public	√	DividendPayin gToken
	_transfer	Internal		
	withdrawDividend	Public		-
	excludeFromDividends	External	1	onlyOwner
	updateClaimWait	External	1	onlyOwner
	updateMinimumTokenBalanceForDivi dends	External	✓	onlyOwner
	getLastProcessedIndex	External		-
	getNumberOfTokenHolders	External		-
	getAccount	Public		-
	getAccountAtIndex	Public		-
	canAutoClaim	Private		
	setBalance	External	✓	onlyOwner
	process	Public	1	-
	processAccount	Public	1	onlyOwner



Contract Flow





Domain Info

Domain Name	lasmeta.io
Registry Domain ID	4c52850cd4c84b64a1f77dd96092dc49-DONUTS
Creation Date	2021-11-28T19:04:22Z
Updated Date	2021-12-15T11:55:12Z
Registry Expiry Date	2022-11-28T19:04:22Z
Registrar WHOIS Server	whois.godaddy.com/
Registrar URL	http://www.godaddy.com/domains/search.aspx?ci=89
Registrar	GoDaddy.com, LLC
Registrar IANA ID	146

The domain has been created 3 months before the creation of the audit. It will expire in 10 months.

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



Summary

There are some functions that can be abused by the owner like manipulating fees and blacklisting addresses. A multi-wallet signing pattern will provide security against potential hacks. Temporarily locking the contract or renouncing ownership will eliminate all the contract threats. There is a max transaction fee limit of 30%.



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The Coinscope.co team

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