



Audit Report

LasMeta

February 2022

| | |
|------------|--------------------------------------------|
| Type | ERC20 |
| Network | ETH |
| Address | 0xf150ec99e2f53672fd2fcd12b47797024f4a1902 |
| Audited by | © coinscope |

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Contract Review

| | |
|-------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Contract Name | LASM |
| Compiler Version | v0.8.7+commit.e28d00a7 |
| Optimization | 200 runs |
| Licence | None |
| Explorer | https://etherscan.io/address/0xf150ec99e2f53672fd2fcd12b47797024f4a1902 |
| Symbol | LASM |
| Decimals | 18 |
| Total Supply | 800,000,000 |
| Domain | lasmeta.io |

Source Files

| | |
|---------------------|------------------------------------------------------------------|
| Filename | SHA256 |
| contract.sol | cf33f7d20ca8879dfec7b8e56cdf9bd107478704e106ca010cb1f0b6c58d35e6 |

Audit Updates

| | |
|----------------------|--------------------|
| Initial Audit | 13th February 2022 |
| Corrected | 5th May 2022 |

Contract Analysis

● Critical
 ● Medium
 ● Minor
 ● Pass

| 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 |
| ● | BT | Contract Owner is not able to burn tokens from specific wallet |
| ● | BC | Contract Owner is not able to blacklist wallets from selling |

ELFM - Exceed Limit Fees Manipulation

| | |
|--------------------|------------------------------|
| Criticality | critical |
| 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 a high percentage value.

```
function setTeamDevFee(uint256 value) external onlyOwner{
    require(value < 100, "Invalid percentage");
    teamFee = value;
    totalFees = rewardsFee.add(liquidityFee).add(teamFee);

    emit SetTeamDevFee(value);
}
```

Recommendation

The contract could embody a check for the maximum acceptable value.

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

● Critical ● Medium ● Minor

| Severity | Code | Description |
|----------|------|--------------------------------------------|
| ● | L01 | Public Function could be Declared External |
| ● | L02 | State Variables could be Declared Constant |
| ● | 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 |

L01 - Public Function could be Declared External

| | |
|--------------------|-----------------------------------------------------------------------------------------------------|
| Criticality | minor |
| Location | contract.sol#L345,362,388,407,425,447,466,597,612,789,798,833,848,876,890,962,966,973,979,2174,2218 |

Description

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

```
process
getAccountAtIndex
size
getKeyAtIndex
getIndexOfKey
get
withdrawnDividendOf
dividendOf
withdrawDividend
...
```

Recommendation

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

L02 - State Variables could be Declared Constant

Criticality

minor

Location

contract.sol#L1249

Description

Constant state variables should be declared constant to save gas.

```
manager
```

Recommendation

Add the constant attribute to state variables that never change.

L04 - Conformance to Solidity Naming Conventions

| | |
|--------------------|---------------------------------------------------------------------------------------------------------------------------------|
| Criticality | minor |
| Location | contract.sol#L876,883,890,900,815,820,1029,1030,1047,1084,1564,1753,1230,1234,1246,1254,1255,1256,1257,1258,1259,1260,1842,2129 |

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.

```
_account  
_delegates  
airdrop  
stakingRewards  
development  
marketing  
partners  
team  
locked  
...
```

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#L641 |

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#L910,687

Description

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

```
abs  
_transfer
```

Recommendation

Remove unused functions.

L12 - Using Variables before Declaration

Criticality

minor

Location

contract.sol#L1733

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#L1733

Description

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

```
lastProcessedIndex  
iterations  
claims
```

Recommendation

All the local scoped variables should be initialized.

L15 - Local Scope Variable Shadowing

Criticality

minor

Location

contract.sol#L829,876,883,890,900

Description

There 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 | Type | Bases | | |
|-----------------------|----------------|------------|------------|-----------|
| | Function Name | Visibility | Mutability | Modifiers |
| IERC20 | Interface | | | |
| | totalSupply | External | | - |
| | balanceOf | External | | - |
| | transfer | External | ✓ | - |
| | allowance | External | | - |
| | approve | External | ✓ | - |
| | transferFrom | External | ✓ | - |
| IERC20Metadata | Interface | IERC20 | | |
| | name | External | | - |
| | symbol | External | | - |
| | decimals | External | | - |
| Context | Implementation | | | |
| | _msgSender | Internal | | |
| | _msgData | Internal | | |
| SafeMath | Library | | | |
| | add | Internal | | |
| | sub | Internal | | |
| | sub | Internal | | |
| | mul | Internal | | |
| | div | Internal | | |
| | div | Internal | | |
| | mod | Internal | | |
| | mod | Internal | | |
| | | | | |

| | | | | |
|----------------------|----------------------|-------------------------------------------|---|---|
| ERC20 | Implementation | Context, IERC20, IERC20Meta data | | |
| | <Constructor> | Public | ✓ | - |
| | 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 | ✓ | |
| | _beforeTokenTransfer | Internal | ✓ | |
| | | | | |
| ERC20Burnable | Implementation | Context, ERC20 | | |
| | burn | Public | ✓ | - |
| | burnFrom | Public | ✓ | - |
| | | | | |
| SafeMathUint | Library | | | |
| | toInt256Safe | Internal | | |
| | | | | |
| SafeMathInt | Library | | | |
| | mul | Internal | | |
| | div | Internal | | |
| | sub | Internal | | |
| | add | Internal | | |
| | abs | Internal | | |
| | toUint256Safe | Internal | | |

| | | | | |
|---------------------------------------------|-------------------------|---------------------------------------------------------------------------------------------|---|-----------|
| | | | | |
| DividendPayingTokenInterface | Interface | | | |
| | dividendOf | External | | - |
| | withdrawDividend | External | ✓ | - |
| | | | | |
| DividendPayingTokenOptionalInterface | Interface | | | |
| | withdrawableDividendOf | External | | - |
| | withdrawnDividendOf | External | | - |
| | accumulativeDividendOf | External | | - |
| | | | | |
| Ownable | Implementation | Context | | |
| | <Constructor> | Public | ✓ | - |
| | owner | Public | | - |
| | renounceOwnership | Public | ✓ | onlyOwner |
| | transferOwnership | Public | ✓ | onlyOwner |
| | | | | |
| DividendPayingToken | Implementation | ERC20, Ownable, DividendPayingTokenInterface, DividendPayingTokenOptionalInterface | | |
| | <Constructor> | Public | ✓ | ERC20 |
| | distributeCAKEDividends | Public | ✓ | onlyOwner |
| | withdrawDividend | Public | ✓ | - |
| | _withdrawDividendOfUser | Internal | ✓ | |
| | dividendOf | Public | | - |
| | withdrawableDividendOf | Public | | - |
| | withdrawnDividendOf | Public | | - |
| | accumulativeDividendOf | Public | | - |
| | _transfer | Internal | ✓ | |
| | _mint | Internal | ✓ | |

| | | | | |
|------------------------|----------------------|----------|---|---|
| | _burn | Internal | ✓ | |
| | _setBalance | Internal | ✓ | |
| | | | | |
| IterableMapping | Library | | | |
| | get | Public | | - |
| | getIndexOfKey | Public | | - |
| | getKeyAtIndex | Public | | - |
| | size | Public | | - |
| | set | Public | ✓ | - |
| | remove | Public | ✓ | - |
| | | | | |
| 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 | ✓ | - |

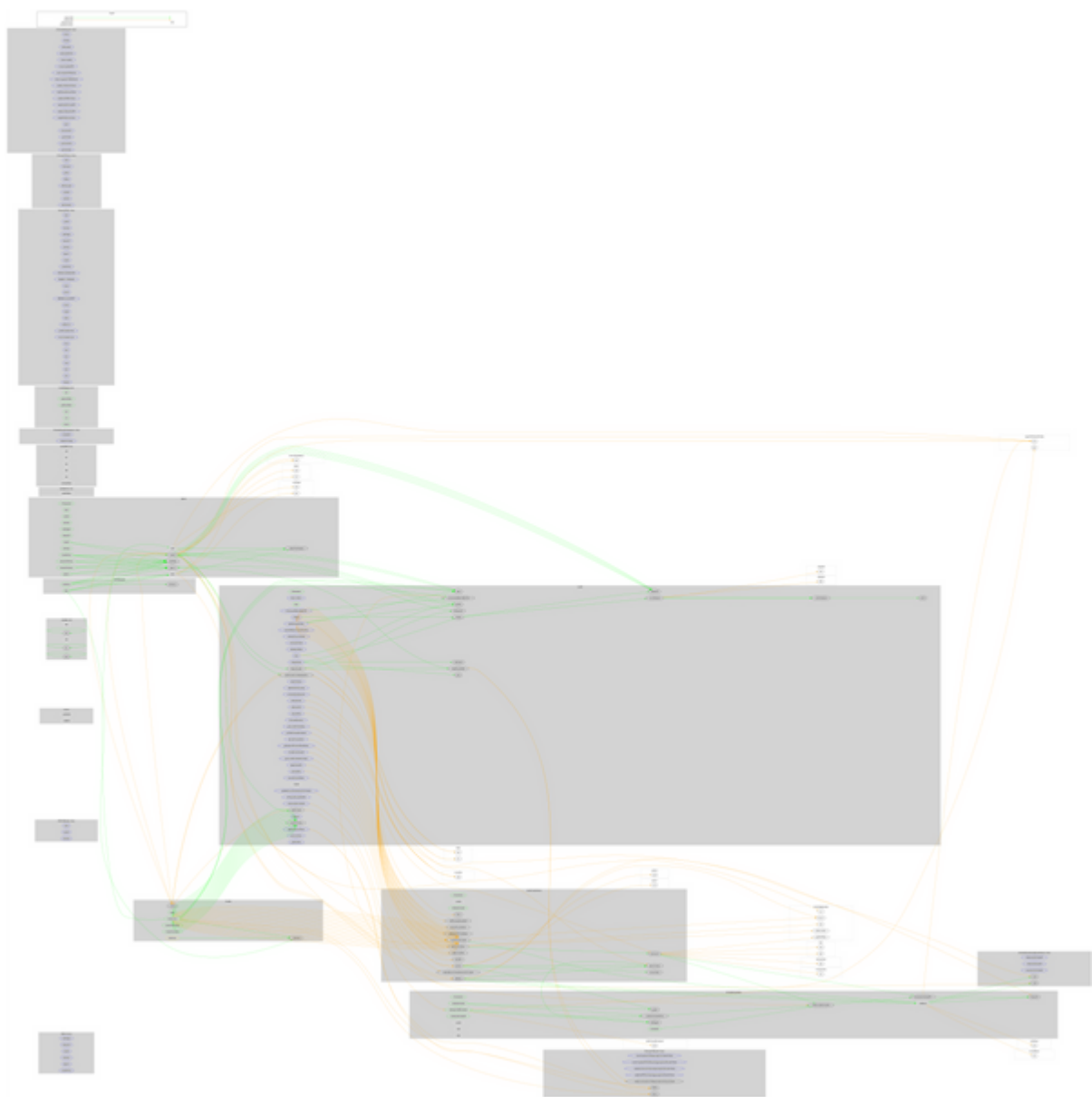
| | | | | |
|---------------------------|------------------------------|----------|---------|---|
| | burn | External | ✓ | - |
| | swap | External | ✓ | - |
| | skim | External | ✓ | - |
| | sync | External | ✓ | - |
| | initialize | External | ✓ | - |
| | | | | |
| IUniswapV2Factory | Interface | | | |
| | feeTo | External | | - |
| | feeToSetter | External | | - |
| | getPair | External | | - |
| | allPairs | External | | - |
| | allPairsLength | External | | - |
| | createPair | External | ✓ | - |
| | setFeeTo | External | ✓ | - |
| | setFeeToSetter | External | ✓ | - |
| | | | | |
| 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 | ✓ | - |
| | | | | |
| LASM | Implementation | ERC20, ERC20Burnable, Ownable | | |
| | <Constructor> | Public | ✓ | ERC20 |
| | <Receive Ether> | External | Payable | - |
| | burn | Public | ✓ | - |
| | updateDividendTracker | External | ✓ | onlyOwner |
| | updateUniswapV2Router | External | ✓ | onlyOwner |
| | excludeFromFees | Public | ✓ | onlyOwner |
| | excludeMultipleAccountsFromFees | External | ✓ | onlyOwner |
| | setSwapTokensAtAmount | External | ✓ | onlyOwner |
| | setTeamDevWallet | External | ✓ | onlyOwner |
| | setBuyBackWallet | External | ✓ | onlyOwner |
| | setRewardsFee | External | ✓ | onlyOwner |
| | setLiquiditFee | External | ✓ | onlyOwner |
| | setTeamDevFee | External | ✓ | onlyOwner |
| | setAutomatedMarketMakerPair | External | ✓ | onlyOwner |
| | blacklistAddress | External | ✓ | onlyOwner |
| | _setAutomatedMarketMakerPair | Private | ✓ | |
| | updateGasForProcessing | External | ✓ | onlyOwner |
| | updateClaimWait | External | ✓ | onlyOwner |

| | | | | |
|-----------------------------|---------------------------------------|------------------------------|---|---------------------|
| | getClaimWait | External | | - |
| | updateMinimumTokenBalanceForDividends | External | ✓ | onlyOwner |
| | getTotalDividendsDistributed | External | | - |
| | isExcludedFromFees | External | | - |
| | withdrawableDividendOf | External | | - |
| | dividendTokenBalanceOf | External | | - |
| | excludeFromDividends | External | ✓ | onlyOwner |
| | getAccountDividendsInfo | External | | - |
| | getAccountDividendsInfoAtIndex | External | | - |
| | processDividendTracker | External | ✓ | - |
| | claim | External | ✓ | - |
| | getLastProcessedIndex | External | | - |
| | getNumberOfDividendTokenHolders | External | | - |
| | _transfer | Internal | ✓ | |
| | sendToTeamDevAndBuyBackFee | Private | ✓ | |
| | setSwapAndLiquifyEnabled | External | ✓ | onlyOwner |
| | swapAndLiquify | Private | ✓ | |
| | swapTokensForEth | Private | ✓ | |
| | addLiquidity | Private | ✓ | |
| | sendDividends | Private | ✓ | |
| | delegates | External | | - |
| | delegate | External | ✓ | - |
| | delegateBySig | External | ✓ | - |
| | getCurrentVotes | External | | - |
| | getPriorVotes | External | | - |
| | _delegate | Internal | ✓ | |
| | _moveDelegates | Internal | ✓ | |
| | _writeCheckpoint | Internal | ✓ | |
| | safe32 | Internal | | |
| | getChainId | Internal | | |
| | | | | |
| LasmDividend Tracker | Implementation | Ownable, DividendPayingToken | | |
| | <Constructor> | Public | ✓ | DividendPayingToken |

| | | | | |
|--|---------------------------------------|----------|---|-----------|
| | _transfer | Internal | | |
| | withdrawDividend | Public | | - |
| | excludeFromDividends | External | ✓ | onlyOwner |
| | updateClaimWait | External | ✓ | onlyOwner |
| | updateMinimumTokenBalanceForDividends | External | ✓ | onlyOwner |
| | getLastProcessedIndex | External | | - |
| | getNumberOfTokenHolders | External | | - |
| | getAccount | Public | | - |
| | getAccountAtIndex | Public | | - |
| | canAutoClaim | Private | | |
| | setBalance | External | ✓ | onlyOwner |
| | process | Public | ✓ | - |
| | processAccount | Public | ✓ | 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=8990 |
| 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.

Disclaimer

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.

Coinscope team provides no guarantees against the sale of team tokens or the removal of liquidity by the project audited in this document. Always Do your own research and protect yourselves from being scammed.

The Coinscope team has audited this project for general information and only expresses their opinion based on similar projects and checks from popular diagnostic tools. Under no circumstances did Coinscope receive a payment to manipulate those results or change the awarding badge that we will be adding in our website.

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About Coinscope

Coinscope is the leading early coin listing, voting and auditing authority firm. The audit process is analyzing 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>