

# Smart Contract Security Audit Report

## Omlira

October 2022



## Audit Details

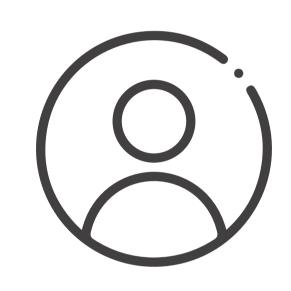


## Audited project

Omlira



**Deployer address**0x07cC8Fd23927AE95758Fa56C9B67A07Ac84C74ef



## Client contacts

Omlira Team



## Blockchain

Avalanche



## Website

https://omlira.com/

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## Disclaimer

This is a limited report on our findings based on our analysis, in accordance with good industry practice as at the date of this report, in relation to cybersecurity vulnerabilities and issues in the framework and algorithms based on smart contracts, the details of which are set out in this report. In order to get a full view of our analysis, it is crucial for you to read the full report. While we have done our best in conducting our analysis and producing this report, it is important to note that you should not rely on this report and cannot claim against us on the basis of what it says or doesn't say, or how we produced it, and it is important for you to conduct your own independent investigations before making any decisions. We go into more detail on this in the below disclaimer below – please make sure to read it in full.

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The analysis of the security is purely based on the smart contracts alone. No applications or operations were reviewed for security. No product code has been reviewed.

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## Procedure

### Step 1 - In-Depth Manual Review

Manual line-by-line code reviews to ensure the logic behind each function is sound and safe from various attack vectors. This is the most important and lengthy portion of the audit process (as automated tools often cannot find the nuances that lead to exploits such as flash loan attacks).

### Step 2 - Automated Testing

Simulation of a variety of interactions with your Smart Contract on a test blockchain leveraging a combination of automated test tools and manual testing to determine if any security vulnerabilities exist.

### Step 3 – Leadership Review

The engineers assigned to the audit will schedule meetings with our leadership team to review the contracts, any comments or findings, and ask questions to further apply adversarial thinking to discuss less common attack vectors.

### Step 4 - Resolution of Issues

Consulting with the team to provide our recommendations to ensure the code's security and optimize its gas efficiency, if possible. We assist project team's in resolving any outstanding issues or implementing our recommendations.

### Step 5 - Published Audit Report

Boiling down results and findings into an easy-to-read report tailored to the project. Our audit reports highlight resolved issues and any risks that exist to the project or its users, along with any remaining suggested remediation measures. Diagrams are included at the end of each report to help users understand the interactions which occur within the project.

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## Background

### HackSafe was commissioned by Omlira to perform an audit of smart contracts:

• https://snowtrace.io/address/0x979fFD8eEd7a43629eA29581DF4Bfe2b3F224e47#code

### The purpose of the audit was to achieve the following:

- Ensutre that the smart contract functions as intended.
- Identify potential security issues with the smart contract.

The information in this report should be understand the risk exposure of the smart contract, and as a guide to improve the security posture of the smart contract by remediating the issues that were identified.

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## Contract Details

### Token contract details for 10.10.2022

Token Type	: ERC20
Contract name	: LToken
Contract address	: 0x979fFD8eEd7a43629eA29581DF4Bfe2b3F224e47
Total supply	: 418,322.192432
Token ticker	: OML
Decimals	: 18
Token holders	: 34
Transactions count	: 1,354
Compiler version	: v0.8.7+commit.e28d00a7
Contract deployer address	: 0x07cC8Fd23927AE95758Fa56C9B67A07Ac84C74ef
Owner address	: 0x07cC8Fd23927AE95758Fa56C9B67A07Ac84C74ef

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# Social profiles

Telegram profile	: https://t.me/omlira
Coinmarketcap profile	: https://coinmarketcap.com/currencies/omlira/
Coingecko profile	: https://www.coingecko.com/en/coins/omlira/

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# Audit Summary

According to the standard audit assessment, Customer`s solidity smart contracts are "Secure". This token contract does contain owner control, which do not make it fully decentralized as owner does have control over the smart contract.

Insecure Poor secured Secure Well-secured





We used various tools like Slither, Mythril and Remix IDE. At the same time this finding is based on critical analysis of the manual audit. All issues found during automated analysis were manually reviewed and applicable vulnerabilities are presented in the issues checking status.

We found 0 critical, 0 high, 0 medium and 1 low and some very low-level issues.

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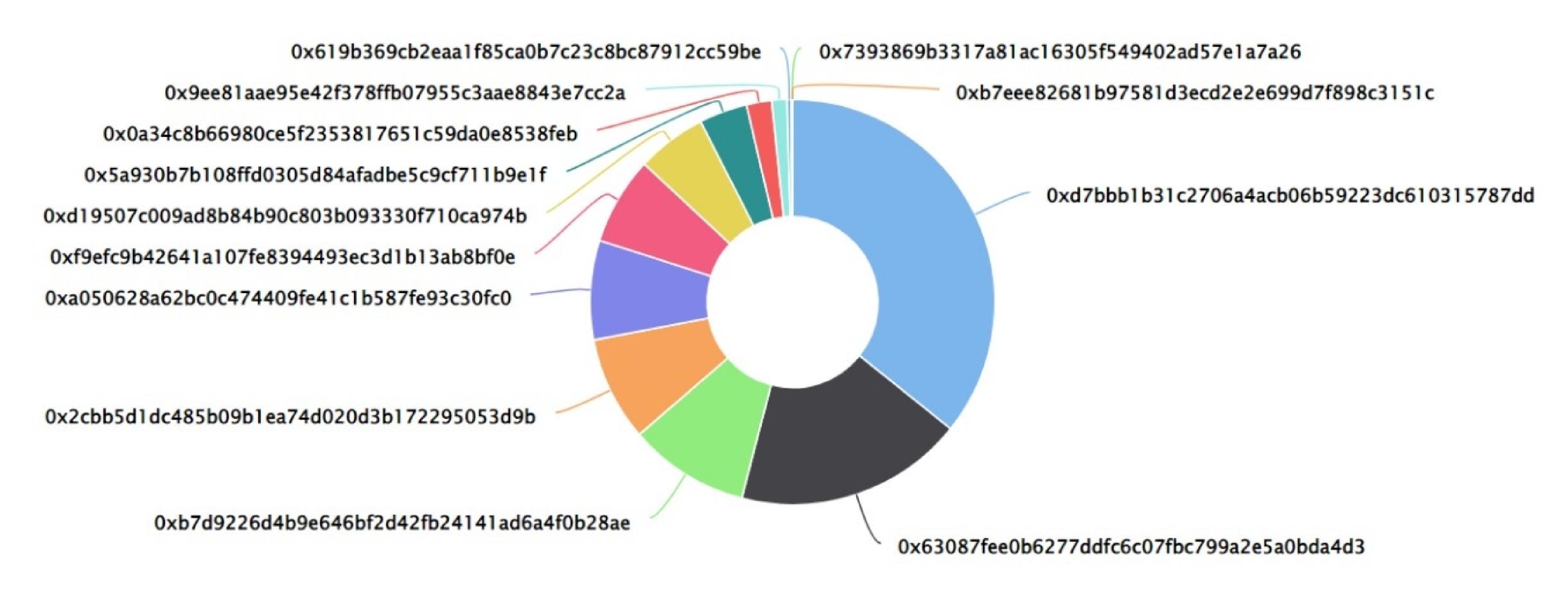
## Omlira Token Distribution

The top 100 holders collectively own 100.00% (418,322.19 Tokens) of Omlira

▼ Token Total Supply: 418,322.19 Token | Total Token Holders: 34

### Omlira Top 100 Token Holders

Source: snowtrace.io



## Omlira Top 20 Token Holders

(A total of 418,322.19 tokens held by the top 100 accounts from the total supply of 418,322.19 token)

Rank	Address	Quantity (Token)	Percentage
1	0xd7bbb1b31c2706a4acb06b59223dc610315787dd	149,599.293436510556688467	35.7617%
2	0x63087fee0b6277ddfc6c07fbc799a2e5a0bda4d3	76,469.778038115593596887	18.2801%
3	0xb7d9226d4b9e646bf2d42fb24141ad6a4f0b28ae	40,326.678059384439043685	9.6401%
4	①x2cbb5d1dc485b09b1ea74d020d3b172295053d9b	34,756.66645393849341406	8.3086%
5	0xa050628a62bc0c474409fe41c1b587fe93c30fc0	33,171.069957983359935399	7.9296%
6	①xf9efc9b42641a107fe8394493ec3d1b13ab8bf0e	29,301.771344956659737509	7.0046%
7	0xd19507c009ad8b84b90c803b093330f710ca974b	23,313.9	5.5732%
8	0x5a930b7b108ffd0305d84afadbe5c9cf711b9e1f	16,130.018302330239085207	3.8559%
9	0x0a34c8b66980ce5f2353817651c59da0e8538feb	8,349.301273066585870346	1.9959%
10	0x9ee81aae95e42f378ffb07955c3aae8843e7cc2a	5,176.785519541211320338	1.2375%
11	0x619b369cb2eaa1f85ca0b7c23c8bc87912cc59be	1,384.984479029087702746	0.3311%
12	0x3cf34d1f6b7839bc7b60b4f52dea328e186cc188	100	0.0239%
13	0x76bc33a47af9c4fe11d9e7f1b2d2edfe969be968	92.682750475941761979	0.0222%
14	0x777336ae2cef9ddc261a61a97cbfb4e0aa7d1329	61.812767453416978865	0.0148%
15	0xcab005f52204903defaf35a3b7273850cd213467	60.72304855555980714	0.0145%
16	0x49b19c98743341f6b1a7765f53aaf6374135ee3b	15	0.0036%
17	0xd3668aa1c016d87a4b3fbdfc33184c742d02dd61	5.61488366117824845	0.0013%
18	0x94432ac892521e7470bc6124e3bd29d86647cca6	0.922676245468463181	0.0002%
19	0x3ae0337a42e67669a1903c1a3dd0023b35a0eb9c	0.869967102654210281	0.0002%
20	0x144a5ee72ab076cfe564d3d2162b5387973ee70c	0.80703504077098598	0.0002%

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```
+[Int] IAccessControl
    -[Ext] hasRole
    -[Ext] getRoleAdmin
    -[Ext] grantRole
    -[Ext] revokeRole
    -[Ext] renounceRole
+ Context
    -[Int] _msgSender
    -[Int] _msgData
+[Lib] Strings
    -[Int] toString
    -[Int] toHexString
    -[Int] toHexString
+[Int] IERC165
    -[Ext] supportsInterface
+ERC165 (IERC165)
    -[Pub] supportsInterface
+AccessControl (Context, IAccessControl, ERC165)
    -[Pub] supportsInterface
    -[Pub] hasRole
    -[Int] _checkRole
    -[Pub] getRoleAdmin
    -[Pub] grantRole #
      -modifiers: onlyRole
    -[Pub] revokeRole #
      -modifiers: onlyRole
    -[Pub] renounceRole #
    -[Int] _setupRole #
    -[Int] _setRoleAdmin #
    -[Pvt] _grantRole #
    -[Pvt] _revokeRole #
+Guarded (AccessControl)
    -<constructor>
```

```
-[Pub] pause #
      -modifiers: onlyAdmin nonPaused
    -[Pub] unpause #
      -modifiers: onlyAdmin paused
    -[Pub] isPaused
    -[Pub] transferOwner #
      -modifiers: onlyOwner
    -[Pub] setRoleAdmin #
      -modifiers: onlyOwner
+[Int] IERC20
    -[Ext] totalSupply
    -[Ext] balanceOf
    -[Ext] transfer
    -[Ext] allowance
    -[Ext] approve
    -[Ext] transferFrom
+[Lib] Address
    -[Int] isContract
    -[Int] sendValue
    -[Int] functionCall
    -[Int] functionCall
    -[Int] functionCallWithValue
    -[Int] functionCallWithValue
    -[Int] functionStaticCall
    -[Int] functionStaticCall
    -[Int] functionDelegateCall
    -[Int] functionDelegateCall
    -[Int] verifyCallResult
+[Lib] SafeERC20
    -[Int] safeTransfer
    -[Int] safeTransferFrom
    -[Int] safeIncreaseAllowance
    -[Int] safeDecreaseAllowance
    -[Pvt] _callOptionalReturn
```

```
+TokenRecover (Guarded)
    -[Pub] recoverERC20 #
      -modifiers: onlyOwner
+Blacklistable (Guarded)
    -[Pub] isBlacklisted
    -[Pub] blacklist #
      -modifiers: onlyBlacklister
    -[Pub] unBlacklist #
      -modifiers: onlyBlacklister
    -[Ext] updateBlacklister #
      -modifiers: onlyOwner
+[Int] IERC20Metadata (IERC20)
    -[Ext] name
    -[Ext] symbol
    -[Ext] decimals
+ERC20 (Context, IERC20, IERC20Metadata)
    -<constructor>
    -[Pub] name
    -[Pub] symbol
    -[Pub] decimals
    -[Pub] totalSupply
    -[Pub] balanceOf
    -[Pub] transfer #
    -[Pub] allowance
    -[Pub] approve #
    -[Pub] transferFrom #
    -[Pub] increaseAllowance #
    -[Pub] decreaseAllowance #
    -[Int] _transfer #
    -[Int] _mint #
    -[Int] _burn #
    -[Int] _approve #
    -[Int] _beforeTokenTransfer #
    -[Int] _afterTokenTransfer #
```

```
+[Int] ILToken (IERC20)
    -[Ext] masterMint
    -[Ext] mintTo
    -[Ext] burnFrom
+LToken (Guarded, TokenRecover, Blacklistable, ERC20, ILToken)
    -<constructor>
    -[Pub] decimals
    -[Pub] masterMint #
      -modifiers: onlyOwner
    -[Pub] mintTo #
      -modifiers: onlyMinter, nonPaused, notBlacklisted
    -[Pub] burnFrom #
      -modifiers: nonPaused
    -[Pub] transfer #
      -modifiers: nonPaused
    -[Pub] transferFrom #
      -modifiers: nonPaused
($) = payable function
# = non-constant function
```

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# Issues Checking Status

No.	Title	Status
1.	Unlocked Compiler Version	Low issue
2.	Missing Input Validation	Passed
3.	Race conditions and Reentrancy. Cross-function race conditions.	Passed
4.	Possible delays in data delivery	Passed
5.	Oracle calls.	Passed
6.	Timestamp dependence.	Passed
7.	Integer Overflow and Underflow	Passed
8.	DoS with Revert.	Passed
9.	DoS with block gas limit.	Passed
10.	Methods execution permissions.	Passed
11.	Economy model of the contract.	Passed
12.	Private use data leaks.	
13.	Malicious Event log.	Passed
14.	Scoping and Declarations.	Passed
15.	Uninitialized storage pointers.	Passed
16.	Arithmetic accuracy.	Passed
17.	Design Logic.	Passed
18.	Safe Open Zeppelin contracts implementation and usage.	Passed
19.	Incorrect Naming State Variable	Passed
20.	Too old version	Passed

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# Severity Definitions

Risk Level	Description
Critical	Critical vulnerabilities are usually straightforward to exploit and can lead to assets loss or data manipulations.
High	High-level vulnerabilities are difficult to exploit; however, they also have a significant impact on smart contract execution, e.g., public access to crucial functions
Medium	Medium-level vulnerabilities are important to fix; however, they can't lead to assets loss or data manipulations.
Low	Low-level vulnerabilities are mostly related to outdated, unused, etc. code snippets that can't have a significant impact on execution.

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## Security Issues

## Critical Severity Issues

No critical severity issue found.

## High Severity Issues

No high severity issues found.

### Medium Severity Issues

No medium severity issue found.

### Low Severity Issues

One low severity issue found..

### 1. Unlocked Compiler Version.

### Description

The contract utilizes an unlocked compiler version. An unlocked compiler version in the contract's source code permits the user to compile it at or above a particular version. This, in turn, leads to differences in the generated bytecode between compilations due to differing compiler version numbers. This can lead to ambiguity when debugging as compiler-specific bugs may occur in the codebase that would be difficult to identify over a span of multiple compiler versions rather than a specific one.

### Recommendation

It is advisable that the compiler version is alternatively locked at the lowest version possible so that the contract can be compiled. For example, for version 0.8.0 the contract should contain the following line:

pragma solidity 0.8.7;

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## Centralization

### Owner Privileges:

- Omlira Contract:
  - Owner can transfer ownership.
  - Owner can mint new tokens.
  - Owner can set admin role.
  - Owner can recover ERC20.
  - Owner can update blacklist.

This smart contract has some functions which can be executed by the Admin (Owner) only. If the admin wallet private key would be compromised, then it would create trouble as smart contract ownership has not been renounced. Following are Admin functions:

- Transferowner
- Setroleadmin
- Recovererc20
- Updateblacklister
- Mastermint

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## Conclusion

Smart contract contains low severity issues! The further transfer and operations with the fund raised are not related to this particular contract.

HackSafe note: Please check the disclaimer above and note, the audit makes no statements or warranties on business model, investment attractiveness or code sustainability. The report is provided for the only contract mentioned in the report and does not include any other potential contracts deployed by Owner.

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