



Code Security Assessment

Stripto Marketplace- Addendum

Jan 28th, 2022

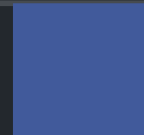


Table of Contents

Summary

Overview

[Project Summary](#)

[Audit Summary](#)

[Vulnerability Summary](#)

[Audit Scope](#)

Findings

[SSM-01 : Third Party Dependencies](#)

[SSM-02 : Centralization Related Risks](#)

[SSM-03 : Missing emit events](#)

[SSM-04 : Variables that could be declared as immutable](#)

[SSM-05 : Initial Token Distribution](#)

[SSM-06 : Return value not handled](#)

[SSM-07 : Unchecked value from low-level call](#)

[SSM-08 : Redundant Operation](#)

[SSM-09 : Limited Effect to Delay the Transfer](#)

[SSM-10 : Potential Logic Flaw for Fee Calculation](#)

[SSM-11 : Fee Collectors](#)

[SSM-12 : Redundant Check](#)

[SSM-13 : Unchecked Value of ERC-20 `transfer\(\)` Call](#)

Appendix

Disclaimer

About

Summary

This report has been prepared for Stripto Marketplace-Addendum to discover issues and vulnerabilities in the source code of the Stripto Marketplace-Addendum project as well as any contract dependencies that were not part of an officially recognized library. A comprehensive examination has been performed, utilizing Static Analysis and Manual Review techniques.

The auditing process pays special attention to the following considerations:

- Testing the smart contracts against both common and uncommon attack vectors.
- Assessing the codebase to ensure compliance with current best practices and industry standards.
- Ensuring contract logic meets the specifications and intentions of the client.
- Cross referencing contract structure and implementation against similar smart contracts produced by industry leaders.
- Thorough line-by-line manual review of the entire codebase by industry experts.

The security assessment resulted in findings that ranged from critical to informational. We recommend addressing these findings to ensure a high level of security standards and industry practices. We suggest recommendations that could better serve the project from the security perspective:

- Enhance general coding practices for better structures of source codes;
- Add enough unit tests to cover the possible use cases;
- Provide more comments per each function for readability, especially contracts that are verified in public;
- Provide more transparency on privileged activities once the protocol is live.

Overview

Project Summary

Project Name	Stripto Marketplace-Addendum
Platform	bsc
Language	Solidity
Codebase	https://github.com/striptoken/strip_token_contract/blob/604435d12c269da56746ec48d7cbb7d032e9df95/Stripto_smart_contract.sol
Commit	604435d12c269da56746ec48d7cbb7d032e9df95 ed491e9fff4e307485020ede6785e8d1f80c3b36

Audit Summary

Delivery Date	Jan 28, 2022
Audit Methodology	Static Analysis, Manual Review

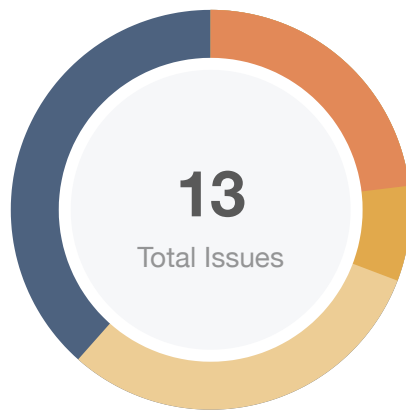
Vulnerability Summary

Vulnerability Level	Total	Pending	Declined	Acknowledged	Partially Resolved	Mitigated
● Critical	0	0	0	0	0	0
● Major	3	0	0	2	0	0
● Medium	1	0	0	1	0	0
● Minor	4	0	0	2	0	0
● Informational	5	0	0	3	0	0
● Discussion	0	0	0	0	0	0

Audit Scope

ID	File	SHA256 Checksum
SSM	Stripto_smart_contract_revised.sol	b99dd906b204ad2915b99ff4a8f641ffdfa7311aa729886f0444cbe6d9411ec

Findings



■ Critical	0 (0.00%)
■ Major	3 (23.08%)
■ Medium	1 (7.69%)
■ Minor	4 (30.77%)
■ Informational	5 (38.46%)
■ Discussion	0 (0.00%)

ID	Title	Category	Severity	Status
SSM-01	Third Party Dependencies	Volatile Code	● Minor	ⓘ Acknowledged
SSM-02	Centralization Related Risks	Centralization / Privilege	● Major	ⓘ Acknowledged
SSM-03	Missing emit events	Coding Style	● Informational	✔ Resolved
SSM-04	Variables that could be declared as immutable	Gas Optimization	● Informational	✔ Resolved
SSM-05	Initial Token Distribution	Centralization / Privilege	● Major	ⓘ Acknowledged
SSM-06	Return value not handled	Volatile Code	● Informational	ⓘ Acknowledged
SSM-07	Unchecked value from low-level call	Volatile Code	● Minor	✔ Resolved
SSM-08	Redundant Operation	Gas Optimization	● Informational	ⓘ Acknowledged
SSM-09	Limited Effect to Delay the Transfer	Logical Issue	● Minor	✔ Resolved
SSM-10	Potential Logic Flaw for Fee Calculation	Logical Issue	● Major	✔ Resolved
SSM-11	Fee Collectors	Centralization / Privilege	● Medium	ⓘ Acknowledged
SSM-12	Redundant Check	Logical Issue	● Informational	ⓘ Acknowledged
SSM-13	Unchecked Value of ERC-20 <code>transfer()</code> Call	Logical Issue	● Minor	ⓘ Acknowledged

SSM-01 | Third Party Dependencies

Category	Severity	Location	Status
Volatile Code	● Minor	Stripto_smart_contract_revised.sol: 373	ⓘ Acknowledged

Description

The contract is serving as the underlying entity to interact with third-party `PancakeSwap` protocols. The scope of the audit treats 3rd party entities as black boxes and assume their functional correctness. However, in the real world, 3rd parties can be compromised and this may lead to lost or stolen assets. In addition, upgrades of 3rd parties can possibly create severe impacts, such as increasing fees of 3rd parties, migrating to new LP pools, etc.

Recommendation

We understand that the business logic of `Stripto` requires interaction with `PancakeSwap`. We encourage the team to constantly monitor the statuses of 3rd parties to mitigate the side effects when unexpected activities are observed.

Alleviation

No Alleviation.

SSM-02 | Centralization Related Risks

Category	Severity	Location	Status
Centralization / Privilege	● Major	Stripto_smart_contract_revised.sol: 247~250, 252~256, 414~421, 424 ~428, 430~433, 436~438, 440~444, 446~450, 453~457, 464~474, 476 ~481, 483~487, 497~502, 504~509, 511~514, 671~677, 680~683	ⓘ Acknowledged

Description

In the contract, `Ownable`, the role, `_owner`, has authority over the following functions.

- `renounceOwnership()`
- `transferOwnership(address newOwner)`

Any compromise to the `_owner` account may allow the hacker to take advantage of this authority.

In the contract, `Stripto`, the role, `_owner`, has authority over the following functions.

- `enableTrading()`
- `removeLimits()`
- `removeBoughtEarly(address account)`
- `disableTransferDelay()`
- `updateMaxBuyAmount(uint256 newNum)`
- `updateMaxSellAmount(uint256 newNum)`
- `updateSwapTokensAtAmount(uint256 newAmount)`
- `airdropToWallets(address[] memory airdropWallets, uint256[] memory amounts)`
- `excludeFromMaxTransaction(address updAds, bool isEx)`
- `setAutomatedMarketMakerPair(address pair, bool value)`
- `updateBuyFees(uint256 _operationsFee, uint256 _liquidityFee)`
- `updateSellFees(uint256 _operationsFee, uint256 _liquidityFee)`
- `excludeFromFees(address account, bool excluded)`
- `transferForeignToken(address _token, address _to)`
- `withdrawStuckETH()`
- `setOperationsAddress()` in the commit `ed491e9ff4e307485020ede6785e8d1f80c3b36`

Any compromise to the `_owner` account may allow the hacker to take advantage of this authority.

Recommendation

The risk describes the current project design and potentially makes iterations to improve in the security operation and level of decentralization, which in most cases cannot be resolved entirely at the present stage. We advise the client to carefully manage the privileged account's private key to avoid any potential risks of being hacked. In general, we strongly recommend centralized privileges or roles in the protocol be improved via a decentralized mechanism or smart-contract-based accounts with enhanced security practices, e.g., multisignature wallets.

Indicatively, here are some feasible suggestions that would also mitigate the potential risk at a different level in terms of short-term, long-term and permanent:

Short Term:

Timelock and Multi sign ($\frac{2}{3}$, $\frac{3}{5}$) combination *mitigate* by delaying the sensitive operation and avoiding a single point of key management failure.

- Time-lock with reasonable latency, e.g., 48 hours, for awareness on privileged operations;
AND
- Assignment of privileged roles to multi-signature wallets to prevent a single point of failure due to the private key compromised;
AND
- A medium/blog link for sharing the timelock contract and multi-signers addresses information with the public audience.

Long Term:

Timelock and DAO, the combination, *mitigate* by applying decentralization and transparency.

- Time-lock with reasonable latency, e.g., 48 hours, for awareness on privileged operations;
AND
- Introduction of a DAO/governance/voting module to increase transparency and user involvement.
AND
- A medium/blog link for sharing the timelock contract, multi-signers addresses, and DAO information with the public audience.

Permanent:

Renouncing the ownership or removing the function can be considered *fully resolved*.

- Renounce the ownership and never claim back the privileged roles.
OR
- Remove the risky functionality.

Alleviation

No Alleviation.

SSM-03 | Missing Emit Events

Category	Severity	Location	Status
Coding Style	● Informational	Stripto_smart_contract_revised.sol: 424~428, 436~438, 453~457, 464~474, 476~481, 483~487, 497~502, 504~509, 680~683	☑ Resolved

Description

There should always be events emitted in the sensitive functions that are controlled by centralization roles.

Recommendation

It is recommended emitting events for the sensitive functions that are controlled by centralization roles.

Alleviation

The development team resolved this issue in commit `ed491e9fff4e307485020ede6785e8d1f80c3b36`.

SSM-04 | Variables That Could Be Declared As Immutable

Category	Severity	Location	Status
Gas Optimization	● Informational	Stripto_smart_contract_revised.sol: 302	🟢 Resolved

Description

The linked variables assigned in the constructor can be declared as `immutable`. Immutable state variables can be assigned during contract creation but will remain constant throughout the lifetime of a deployed contract. A big advantage of immutable variables is that reading them is significantly cheaper than reading from regular state variables since they will not be stored in storage.

Recommendation

We recommend declaring these variables as immutable. Please note that the `immutable` keyword only works in Solidity version `v0.6.5` and up.

Alleviation

The development team resolved this issue in commit `ed491e9ff4e307485020ede6785e8d1f80c3b36`.

SSM-05 | Initial Token Distribution

Category	Severity	Location	Status
Centralization / Privilege	● Major	Stripto_smart_contract_revised.sol: 405	ⓘ Acknowledged

Description

All of the `$STRIP` tokens are sent to the contract deployer when deploying the contract. This could be a centralization risk as the deployer can distribute `$STRIP` tokens without obtaining the consensus of the community.

Recommendation

We recommend the team to be transparent regarding the initial token distribution process, and the team shall make enough efforts to restrict the access of the private key.

Alleviation

No Alleviation.

SSM-06 | Return Value Not Handled

Category	Severity	Location	Status
Volatile Code	● Informational	Stripto_smart_contract_revised.sol: 631~638	ⓘ Acknowledged

Description

The return value of function `addLiquidityETH` is not properly handled.

```
1     uniswapV2Router.addLiquidityETH{value: ethAmount}(
2         address(this),
3         tokenAmount,
4         0, // slippage is unavoidable
5         0, // slippage is unavoidable
6         address(0xdead),
7         block.timestamp
8     );
```

Recommendation

We recommend using variables to receive the return value of the functions mentioned above and handle both success and failure cases if needed by the business logic.

Alleviation

No Alleviation.

SSM-07 | Unchecked Value From Low-level Call

Category	Severity	Location	Status
Volatile Code	● Minor	Stripto_smart_contract_revised.sol: 668, 682	🟢 Resolved

Description

Ignores return value of low-level calls.

```
668 (success, ) = address(operationsAddress).call{value: address(this).balance}("");
```

```
682 (success, ) = address(msg.sender).call{value: address(this).balance}("");
```

Recommendation

If you choose to use the low-level call methods, make sure to handle the possibility that the call will fail, by checking the return value.

Alleviation

The development team resolved this issue in commit [ed491e9ff4e307485020ede6785e8d1f80c3b36](#).

SSM-08 | Redundant Operation

Category	Severity	Location	Status
Gas Optimization	● Informational	Stripo_smart_contract_revised.sol: 406	ⓘ Acknowledged

Description

Since the `newOwner` is `msg.sender`, there is no need to transfer ownership because the `_owner` is initialized as `msg.sender` in the contract `Ownable` when it is deployed.

```
232     constructor () {
233         address msgSender = _msgSender();
234         _owner = msgSender;
235         emit OwnershipTransferred(address(0), msgSender);
236     }
```

```
369     constructor() ERC20("STRIPTO", "$STRIP") {
370     ...
371     address newOwner = msg.sender;
372     ...
373     ...
374     transferOwnership(newOwner);
```

Recommendation

Consider removing the linked code for gas efficiencies and code readability.

Alleviation

No Alleviation.

SSM-09 | Limited Effect To Delay The Transfer

Category	Severity	Location	Status
Logical Issue	● Minor	Stripto_smart_contract_revised.sol: 541	🕒 Resolved

Description

It is noted that the `if` condition is limited to the specified `uniswapV2Pair` pair. There are probably multiple pairs in the DEX or in different DEXs. Is that designed as expected?

Recommendation

Consider using a white list.

Alleviation

The development team heeded our advice and resolved this issue in commit `ed491e9fff4e307485020ede6785e8d1f80c3b36`.

SSM-10 | Potential Logic Flaw For Fee Calculation

Category	Severity	Location	Status
Logical Issue	● Major	Stripto_smart_contract_revised.sol: 579~595	🕒 Resolved

Description

According to the logic of this contract, the early buyer should be punished to undertake high fees and these fees will be accumulated to `tokensForLiquidity` and `tokensForOperations`:

```
579 if(boughtEarly[from] && automatedMarketMakerPairs[to] && block.timestamp <
earlyBuyPenaltyEnd){
580     fees = amount * 75 / 100;
581     tokensForLiquidity += fees * sellLiquidityFee / sellTotalFees;
582     tokensForOperations += fees * sellOperationsFee / sellTotalFees;
583 }
```

However, the above fees will be overwritten and the `tokensForLiquidity` and `tokensForOperations` will be accumulated again by the following code:

```
585 if (automatedMarketMakerPairs[to] && sellTotalFees > 0){
586     fees = amount * sellTotalFees /100;
587     tokensForLiquidity += fees * sellLiquidityFee / sellTotalFees;
588     tokensForOperations += fees * sellOperationsFee / sellTotalFees;
589 }
```

Recommendation

Consider refactoring the `if` condition to `if-else` condition:

```
if(boughtEarly[from] && automatedMarketMakerPairs[to] && block.timestamp <
earlyBuyPenaltyEnd){
    fees = amount * 75 / 100;
    tokensForLiquidity += fees * sellLiquidityFee / sellTotalFees;
    tokensForOperations += fees * sellOperationsFee / sellTotalFees;
}
// on sell
else if (automatedMarketMakerPairs[to] && sellTotalFees > 0){
    fees = amount * sellTotalFees /100;
    tokensForLiquidity += fees * sellLiquidityFee / sellTotalFees;
    tokensForOperations += fees * sellOperationsFee / sellTotalFees;
}
```

Alleviation

The development team resolved this issue in commit `ed491e9fff4e307485020ede6785e8d1f80c3b36`.

SSM-11 | Fee Collectors

Category	Severity	Location	Status
Centralization / Privilege	● Medium	Stripto_smart_contract_revised.sol: 302	ⓘ Acknowledged

Description

There is a fee collector, i.e. `operationsAddress`, over time, this account would gain more and more fees.

Recommendation

In general, we strongly recommend centralized privileges or roles in the protocol to be improved via a decentralized mechanism or via smart-contract based accounts with enhanced security practices, f.e. Multisignature wallets.

Indicatively, here are some feasible solutions that would also mitigate the potential risk:

- Time-lock with reasonable latency, i.e. 48 hours, for awareness on privileged operations;
- Assignment of privileged roles to multi-signature wallets to prevent single point of failure due to the private key;
- Introduction of a DAO / governance / voting module to increase transparency and user involvement.

Alleviation

No Alleviation.

SSM-12 | Redundant Check

Category	Severity	Location	Status
Logical Issue	● Informational	Stripto_smart_contract_revised.sol: 524	ⓘ Acknowledged

Description

In the function `_transfer`, the aforementioned statement `to != address(0)` in `if` condition has been checked in line 519:

```
519 require(to != address(0), "ERC20: transfer to the zero address");
```

Recommendation

Consider removing the redundant check.

Alleviation

No Alleviation.

SSM-13 | Unchecked Value Of ERC-20 `transfer()` Call

Category	Severity	Location	Status
Logical Issue	● Minor	Stripto_smart_contract_revised.sol: 675	ⓘ Acknowledged

Description

The linked `transfer()` invocations do not check the return value of the function call which should yield a `true` result in case of proper ERC-20 implementation.

Recommendation

As many tokens do not follow the ERC-20 standard faithfully, they may not return a `bool` variable in this function's execution meaning that simply expecting it can cause incompatibility with these types of tokens. Instead, we advise that [OpenZeppelin's SafeERC20.sol](#) implementation is utilized for interacting with the `transfer()` functions of ERC-20 tokens. The OZ implementation optionally checks for a return value rendering compatible with all ERC-20 token implementations.

Alleviation

No Alleviation.

Appendix

Finding Categories

Centralization / Privilege

Centralization / Privilege findings refer to either feature logic or implementation of components that act against the nature of decentralization, such as explicit ownership or specialized access roles in combination with a mechanism to relocate funds.

Gas Optimization

Gas Optimization findings do not affect the functionality of the code but generate different, more optimal EVM opcodes resulting in a reduction on the total gas cost of a transaction.

Logical Issue

Logical Issue findings detail a fault in the logic of the linked code, such as an incorrect notion on how `block.timestamp` works.

Volatile Code

Volatile Code findings refer to segments of code that behave unexpectedly on certain edge cases that may result in a vulnerability.

Coding Style

Coding Style findings usually do not affect the generated byte-code but rather comment on how to make the codebase more legible and, as a result, easily maintainable.

Checksum Calculation Method

The "Checksum" field in the "Audit Scope" section is calculated as the SHA-256 (Secure Hash Algorithm 2 with digest size of 256 bits) digest of the content of each file hosted in the listed source repository under the specified commit.

The result is hexadecimal encoded and is the same as the output of the Linux `"sha256sum"` command against the target file.

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