



Stader Labs

LunaX for Terra2

CosmWasm Smart Contract
Security Audit

Prepared by: Halborn

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Visit: Halborn.com

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EXECUTIVE OVERVIEW

1.1 INTRODUCTION

Stader Labs engaged Halborn to conduct a security audit on their smart contracts beginning on June 6th, 2022 and ending on June 8th, 2022 . The security assessment was scoped to the smart contracts provided in the GitHub repository [stader-liquid-token](#), commit hashes and further details can be found in the Scope section of this report. LunaX contracts were audited in the past, but recently received relevant updates to prepare for the Terra 2 release.

1.2 AUDIT SUMMARY

The team at Halborn was provided three days for the engagement and assigned a full-time security engineer to audit the security of the smart contract. The security engineers are blockchain and smart-contract security experts with advanced penetration testing, smart-contract hacking, and deep knowledge of multiple blockchain protocols.

The purpose of this audit is to:

- Ensure that smart contract functions operate as intended
- Identify potential security issues with the smart contracts

In summary, Halborn identified some improvements to reduce the likelihood and impact of risks, which were mostly addressed by Stader Labs team. The main ones are the following:

- Perform bounds validation on all the relevant configuration parameters.
- Remove unnecessary save operations on state variables.
- Remove unnecessary lowercase operations on addresses that are being validated.

1.3 TEST APPROACH & METHODOLOGY

Halborn performed a combination of manual review of the code and automated security testing to balance efficiency, timeliness, practicality, and accuracy in regard to the scope of the smart contract audit. While manual testing is recommended to uncover flaws in logic, process, and implementation; automated testing techniques help enhance coverage of smart contracts and can quickly identify items that do not follow security best practices. The following phases and associated tools were used throughout the term of the audit:

The following phases and associated tools were used throughout the term of the audit:

- Research into the architecture, purpose, and use of the platform.
- Smart contract manual code review and walk-through to identify any logic issue.
- Thorough assessment of safety and usage of critical Rust variables and functions in scope that could lead to arithmetic related vulnerabilities.
- Finding unsafe Rust code usage (`cargo-geiger`)
- Active Fuzz testing (`honggfuzz`).
- Test coverage review (`cargo tarpaulin`).
- Local or public Testnet deployment (`LocalTerra` or `bombay-12`)
- Scanning of Rust dependencies for known vulnerabilities (`cargo audit`).

RISK METHODOLOGY:

Vulnerabilities or issues observed by Halborn are ranked based on the risk assessment methodology by measuring the **LIKELIHOOD** of a security incident and the **IMPACT** should an incident occur. This framework works for communicating the characteristics and impacts of technology vulnerabilities. The quantitative model ensures repeatable and accurate measurement while enabling users to see the underlying vulnerability characteristics that were used to generate the Risk scores. For every vulnerability, a risk

level will be calculated on a scale of 5 to 1 with 5 being the highest likelihood or impact.

RISK SCALE - LIKELIHOOD

- 5 - Almost certain an incident will occur.
- 4 - High probability of an incident occurring.
- 3 - Potential of a security incident in the long term.
- 2 - Low probability of an incident occurring.
- 1 - Very unlikely issue will cause an incident.

RISK SCALE - IMPACT

- 5 - May cause devastating and unrecoverable impact or loss.
- 4 - May cause a significant level of impact or loss.
- 3 - May cause a partial impact or loss to many.
- 2 - May cause temporary impact or loss.
- 1 - May cause minimal or un-noticeable impact.

The risk level is then calculated using a sum of these two values, creating a value of 10 to 1 with 10 being the highest level of security risk.

CRITICAL	HIGH	MEDIUM	LOW	INFORMATIONAL
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- 10 - CRITICAL
- 9 - 8 - HIGH
- 7 - 6 - MEDIUM
- 5 - 4 - LOW
- 3 - 1 - VERY LOW AND INFORMATIONAL

1.4 SCOPE

Code repository: <https://github.com/stader-labs/stader-liquid-token>

1. CosmWasm LunaX Smart Contracts

(a) Commit ID: [86f5617343f56a7b74f4b42e84ffa54ff6317c40](#)

(b) Contracts in scope:

- Airdrops Registry contract ([contracts/airdrops-registry](#))
- Reward contract ([contracts/reward](#))
- Staking contract ([contracts/staking](#))

Out-of-scope: External libraries and financial related attacks.

2. ASSESSMENT SUMMARY & FINDINGS OVERVIEW

CRITICAL	HIGH	MEDIUM	LOW	INFORMATIONAL
0	0	0	1	10

LIKELIHOOD

IMPACT

(HAL-01)				
(HAL-06) (HAL-07) (HAL-08) (HAL-09) (HAL-10) (HAL-11)	(HAL-02) (HAL-03) (HAL-04) (HAL-05)			

SECURITY ANALYSIS	RISK LEVEL	REMEDIATION DATE
(HAL-01) DEPOSIT BOUNDS NOT VALIDATED	Low	PARTIALLY SOLVED - 06/10/2022
(HAL-02) STATE SAVED WITHOUT ANY CHANGE	Informational	SOLVED - 06/09/2022
(HAL-03) UNNECESSARY LOWERCASE ON ADDRESS	Informational	SOLVED - 06/09/2022
(HAL-04) LACK OF ADDRESS VALIDATION	Informational	NOT APPLICABLE
(HAL-05) UNNECESSARY LOOPING OVER VECTOR	Informational	ACKNOWLEDGED
(HAL-06) HARDCODED DENOM IN QUERY	Informational	SOLVED - 06/09/2022
(HAL-07) ADDRESS VALIDATION DONE AT ACCEPT-MANAGER STEP	Informational	ACKNOWLEDGED
(HAL-08) DUPLICATE CODE IMPACTS MAINTAINABILITY	Informational	ACKNOWLEDGED
(HAL-09) OVERFLOW CHECKS NOT SET FOR PROFILE RELEASE	Informational	ACKNOWLEDGED
(HAL-10) CONFIGURATION PARAMETER NOT SET UPON INSTANTIATION	Informational	ACKNOWLEDGED
(HAL-11) UNMANTAINED DEPENDENCY	Informational	SOLVED - 06/09/2022



FINDINGS & TECH DETAILS

3.1 (HAL-01) DEPOSIT BOUNDS NOT VALIDATED - LOW

Description:

The `min_deposit` and `max_deposit` configuration variables of the `staking` contract do not undergo any validation step. The aforementioned values are used to limit the maximum/minimum amounts that users are allowed to deposit.

If a typing error or a malicious admin would set the minimum to a very big number or the maximum to zero, the protocol would effectively suffer a denial of service. A similar situation applies to `undelegation_cooldown`, `unbonding_period` and `reinvest_cooldown`.

Code Location:

Listing 1: `contracts/staking/src/contract.rs` (Lines 59,60)

```
56 let config = Config {
57     manager: info.sender,
58     vault_denom: "uluna".to_string(),
59     min_deposit: msg.min_deposit,
60     max_deposit: msg.max_deposit,
```

Listing 2: `contracts/staking/src/contract.rs`

```
76 undelegation_cooldown: msg.undelegation_cooldown,
77 unbonding_period: msg.unbonding_period,
78 reinvest_cooldown: msg.reinvest_cooldown,
```

Listing 3: `contracts/staking/src/contract.rs`

```
283 config.min_deposit = update_config.min_deposit.unwrap_or(config.
    ↳ min_deposit);
284 config.max_deposit = update_config.max_deposit.unwrap_or(config.
    ↳ max_deposit);
```

Listing 4: contracts/staking/src/contract.rs

```
307 config.undelegation_cooldown = update_config
308     .undelegation_cooldown
309     .unwrap_or(config.undelegation_cooldown);
310 config.unbonding_period = update_config
311     .unbonding_period
312     .unwrap_or(config.unbonding_period);
313 config.reinvest_cooldown = update_config
314     .reinvest_cooldown
315     .unwrap_or(config.reinvest_cooldown);
```

Risk Level:**Likelihood - 1****Impact - 3****Recommendation:**

A validation routine should be added inside the `instantiate` and `update_config` functions to enforce that the values of `min_deposit`, `max_deposit`, `undelegation_cooldown`, `unbonding_period` and `reinvest_cooldown` are within the expected ranges.

Remediation plan:

PARTIALLY SOLVED: The `Stader Labs team` acknowledged the lack of bounds for `reinvest_cooldown`. On the other hand, validation mechanisms for `undelegation_cooldown`, `unbonding_period`, `min_deposit` and `max_deposit` were implemented in commit [b27a835330f81dcaeee0a8cb091b60a5b3e4b8e1](#).

3.2 (HAL-02) STATE SAVED WITHOUT ANY CHANGE - INFORMATIONAL

Description:

The `queue_undelegation` function loads `STATE` to update other details with the current values of `current_undelegation_batch_id` and `exchange_rate`. Although none of its fields are actually updated on this function, the `STATE` is saved at the end.

This issue does not pose an actual security threat, but unnecessary code decreases readability and increases gas costs.

Code Location:

Listing 5: `contracts/staking/src/contract.rs` (Line 820)

```
816         batch_undelegation.undelegation_er = state.exchange_rate;
817         Ok(batch_undelegation)
818     },
819 )?;
820 STATE.save(deps.storage, &state)?;
821
822 Ok(Response::default())
```

Risk Level:

Likelihood - 2

Impact - 1

Recommendation:

Do not save state variables if nothing has been updated.

Remediation plan:

SOLVED: The issue was fixed in commit [8121307836d015f0a4ecdd790d38b2e16c674d01](#).

3.3 (HAL-03) UNNECESSARY LOWERCASE ON ADDRESS – INFORMATIONAL

Description:

The contracts within scope actively lowercase addresses that are later validated. This kind of operation made sense when the supported CosmWasm version didn't implement any fixes for [CWA-2022-002](#). Terra 2 is based on [CosmWasm 1.0.0](#) which implements a validation mechanism to prevent address normalization issues found in the past.

Although not an actual security issue, it is an unnecessary operation for addresses that are later validated through `deps.api.addr_validate()`. In addition to incurring in extra gas cost, it decreases readability.

Code Location:

Listing 6: `contracts/airdrops-registry/src/contract.rs` (Line 77)

```
74 TMP_MANAGER_STORE.save(  
75     deps.storage,  
76     &TmpManagerStore {  
77         manager: manager.to_lowercase(),  
78     },  
79 );
```

Listing 7: Resources affected

```
1 contracts/airdrops-registry/src/contract.rs#77, 131, 134  
2 contracts/reward/src/contract.rs#32, 89  
3 contracts/staking/src/contract.rs#189, 275, 333, 364, 365, 430,  
↳ 431, 1196, 1237, 1263
```

Risk Level:

Likelihood - 2

Impact - 1

Recommendation:

When storing addresses for later usage on Terra 2, validation through `deps.api.addr_validate()` is enough and explicit capitalization checks are not required anymore.

Remediation plan:

SOLVED: The issue was fixed in commit [f51ab5b426fdc18aae1192d97f89b6d67d0ad5e7](#).

3.4 (HAL-04) LACK OF ADDRESS VALIDATION - INFORMATIONAL

Description:

The staking contracts doesn't validate addresses of validators on the `add_validator`, `rebalance_pool` and `remove_validator_from_pool` functions. This does not introduce an actual security threat in the contract as these addresses are later used to query if an actual validator exists, avoiding accounting for incorrect addresses.

However, this issue has been included for informational purposes, as the error raised from validating the address is more descriptive for a user inputting an incorrect address than the current `ContractError::ValidatorNotDiscoverable`. In addition, no lowercasing operating will be required if the address is validated as mentioned in (HAL-03) UNNECESSARY LOWERCASE ON ADDRESS.

Code Location:

Listing 8: Resources affected

```
1 contracts/staking/src/contract.rs#333,364,365,430,431
```

Risk Level:

Likelihood - 2

Impact - 1

Recommendation:

Validate the addresses using `deps.api.addr_validate()` without any lower-casing.

Remediation plan:

NOT APPLICABLE: The proposed recommendation was considered not suitable for Validator addresses as opposed to normal Terra addresses. Therefore, the best possible approach is to maintain the lowercase and check if it is part of the validator pool afterwards.

3.5 (HAL-05) UNNECESSARY LOOPING OVER VECTOR – INFORMATIONAL

Description:

The `undelegate_stake` function retrieves the amount of funds to be undelegated on `current_undelegation_batch_id` and then goes over the whole vector of `stake_tuples` to actually undelegate the required amount. However, instead of checking if there is a positive amount of funds to be delegated before looping over the vector, the check is done inside the `for` loop, effectively going over the whole vector unnecessarily.

Although not posing an actual security threat, the function will incur in unnecessary extra gas costs when there is nothing to undelegate.

Code Location:

Listing 9: `contracts/staking/src/contract.rs` (Lines 894,895)

```
892 for index in (0..stake_tuples.len()).rev() {
893     let tuple_val = stake_tuples.get(index).unwrap().clone();
894     if to_undelegate.is_zero() {
895         break;
896     }
897     let val_addr = Addr::unchecked(tuple_val.1);
```

Risk Level:

Likelihood - 2

Impact - 1

Recommendation:

Place the check prior to the `for` loop to avoid going over it unnecessarily. The following snippet illustrates an example of this.

Listing 10: Proposed fix

```
1 if !to_undelegate.is_zero() {
2     for index in (0..stake_tuples.len()).rev() {
3         let tuple_val = stake_tuples.get(index).unwrap().clone();
4         // Additional code
5         // Additional code
6     }
7 }
```

Remediation plan:

ACKNOWLEDGED: The [Stader Labs team](#) acknowledged this finding.

3.6 (HAL-06) HARDCODED DENOM IN QUERY - INFORMATIONAL

Description:

The denom of the native coin managed by the protocol, `uluna` at the time of the audit, is stored as part of the Configuration to be later accessed as `config.vault_denom` when required. However, one line of code does not follow this pattern and hard-codes `uluna` instead.

Although not posing an actual security threat, following the described pattern aids on code maintainability and readability in case the vault denom is to be changed in the future.

Code Location:

Listing 11: `contracts/staking/src/contract.rs` (Line 1206)

```
1203 Ok(UserInfoResponse {
1204     user_info: UserQueryInfo {
1205         total_tokens: user_token_balance,
1206         total_amount: Coin::new(user_amount.u128(), "uluna".
↳ to_string()),
1207     },
1208 })
```

Risk Level:

Likelihood - 1

Impact - 1

Recommendation:

Use `config.vault_denom` instead, as shown below.

Listing 12: Proposed fix (Line 1206)

```
1203 Ok(UserInfoResponse {
1204     user_info: UserQueryInfo {
1205         total_tokens: user_token_balance,
1206         total_amount: Coin::new(user_amount.u128(), config.
    ↪ vault_denom),
1207     },
1208 })
```

Remediation plan:

SOLVED: The issue was fixed in commit [8121307836d015f0a4ecdd790d38b2e16c674d01](#).

3.7 (HAL-07) ADDRESS VALIDATION DONE AT ACCEPT-MANAGER STEP - INFORMATIONAL

Description:

The contracts within scope implement the recommended two-step pattern for transferring privileged addresses while validating the address. However, address validation is done on the `accept_manager` function instead of the `set_manager` function.

Although not posing an actual security threat, it will cause inconvenience to manager users. When an incorrect address is submitted, the error introduced in the first step will be actually checked on the second step instead, making them go back to the first step.

Code Location:

Listing 13: `contracts/airdrops-registry/src/contract.rs` (Lines 98,103)

```
84 pub fn accept_manager(  
85     deps: DepsMut,  
86     info: MessageInfo,  
87     _env: Env,  
88 ) -> Result<Response, ContractError> {  
89     let mut config = CONFIG.load(deps.storage)?;  
90  
91     let tmp_manager_store =  
92         if let Some(tmp_manager_store) = TMP_MANAGER_STORE.  
↳ may_load(deps.storage)? {  
93         tmp_manager_store  
94     } else {  
95         return Err(ContractError::TmpManagerStoreEmpty {});  
96     };  
97  
98     let manager = deps.api.addr_validate(tmp_manager_store.manager  
↳ .as_str())?;  
99     if info.sender != manager {
```

```
100     return Err(ContractError::Unauthorized {});
101 }
102
103     config.manager = deps.api.addr_validate(tmp_manager_store.
↳ manager.as_str())?;
104     TMP_MANAGER_STORE.remove(deps.storage);
```

Listing 14: Resources affected

```
1 contracts/airdrops-registry/src/contract.rs#98,103
2 contracts/reward/src/contract.rs#110,115
3 contracts/staking/src/contract.rs#210
```

Risk Level:

Likelihood - 1

Impact - 1

Recommendation:

It is recommended to perform address validation upon storage as part of the `set_manager` function, instead of doing it at `accept_manager`.

Remediation plan:

ACKNOWLEDGED: The [Stader Labs team](#) acknowledged this finding.

3.8 (HAL-08) DUPLICATE CODE IMPACTS MAINTAINABILITY – INFORMATIONAL

Description:

The contracts within scope enforce access controls on the execution of multiple privileged messages that are manager only. The logic that enforces this mechanism is duplicated across multiple functions.

Although not posing an actual security threat, it negatively impacts code's readability and maintainability, as it is error-prone. This same issue applies to the operation paused controls of the staking contract.

It should be highlighted that the staking contract follows the proposed logic in most of its privileged functions.

Code Location:

Listing 15: contracts/airdrops-registry/src/contract.rs

```
99 if info.sender != manager {
100     return Err(ContractError::Unauthorized {});
101 }
```

Listing 16: contracts/staking/src/contract.rs

```
522 let operation_controls = OPERATION_CONTROLS.load(deps.storage)?;
523
524 if operation_controls.deposit_paused {
525     return Err(ContractError::OperationPaused("deposit".to_string
↳ ());
526 }
```

Listing 17: Resources affected

```
1 contracts/airdrops-registry/src/contract.rs#70,99,120
2 contracts/reward/src/contract.rs#82,111,135,173
3 contracts/staking/src/contract.rs#524, 636, 671, 683, 776, 832,
↳ 845, 934, 1016, 1106
```

Risk Level:**Likelihood - 1****Impact - 1****Recommendation:**

Refactor the access controls and pausing controls to a function of their own and use them across all the relevant functionalities.

Remediation plan:

ACKNOWLEDGED: The [Stader Labs team](#) acknowledged this finding.

3.9 (HAL-09) OVERFLOW CHECKS NOT SET FOR PROFILE RELEASE - INFORMATIONAL

Description:

Although the `overflow-checks` parameter is set to `true` in `profile.release` and is implicitly applied to all contracts and packages in the workspace, it is not explicitly enabled in `Cargo.toml` for each individual contract and package, which could have unexpected consequences if the project is refactored.

Code Location:

Listing 18: Resources affected

```
1 contracts/airdrops-registry/Cargo.toml
2 contracts/reward/Cargo.toml
3 contracts/staking/Cargo.toml
```

Risk Level:

Likelihood - 1

Impact - 1

Recommendation:

It is recommended that you explicitly enable overflow checks on each individual contract and package. That measure helps when the project is refactored to avoid unintended consequences.

Remediation plan:

ACKNOWLEDGED: The [Stader Labs team](#) acknowledged this finding.

3.10 (HAL-10) CONFIGURATION PARAMETER NOT SET UPON INSTANTIATION - INFORMATIONAL

Description:

The `instantiate` function did not set the `cw20_token_contract` address, as it did for other required contract addresses in the configuration. Instead, it relied on `update_config` being called post initialization, which could cause undesirable situations if this address is not set right after deployment.

It is worth noting that the `update_config` function only allowed the CW20 address to be set if it contained the initial value `Addr::unchecked("0")`. This effectively prohibited any future change after the first update.

Code Location:

Listing 19: `contracts/staking/src/contract.rs` (Line 69)

```
68 reward_contract: deps.api.addr_validate(msg.reward_contract.as_str
↳ ())?,
69 cw20_token_contract: Addr::unchecked("0"),
70
71 protocol_fee_contract: deps.api.addr_validate(msg.
↳ protocol_fee_contract.as_str())?,
```

Risk Level:

Likelihood - 1

Impact - 1

Recommendation:

The `cw20_token_contract` variable should be set on instantiation, just like with the other contract addresses.

Remediation plan:

ACKNOWLEDGED: The `Stader Labs team` acknowledged this finding.

3.11 (HAL-11) UNMAINTAINED DEPENDENCY – INFORMATIONAL

Description:

Halborn used automated security scanners to assist with detection of well-known security issues and vulnerabilities. Among the tools used was `cargo audit`, a security scanner for vulnerabilities reported to the RustSec Advisory Database. All vulnerabilities published in <https://crates.io> are stored in a repository named The RustSec Advisory Database. `cargo audit` is a human-readable version of the advisory database which performs a scanning on Cargo.lock. Security Detections are only in scope. To better assist the developers maintaining this code, the auditors are including the output with the dependencies tree, and this is included in the cargo audit output to better know the dependencies affected by unmaintained and vulnerable crates.

ID	package	Short Description
RUSTSEC-2020-0025	bigint	bigint is unmaintained, use uint instead

Code Location:

Listing 20: Dependency tree

```

1 bigint 4.4.3
2  cosmwasm-bignumber 2.2.0
3    stader-utils 0.1.0
4      staking 0.1.0
5        reward 0.1.0
6          staking 0.1.0
7      airdrops-registry 0.1.0
8        staking 0.1.0

```

Risk Level:

Likelihood - 1

Impact - 1

Recommendation:

Beware of using dependencies and packages that are no longer supported by developers or have publicly known security flaws, even when they are not currently exploitable.

Remediation plan:

SOLVED: The issue was fixed in commit [6431dd2138e296e3d4358a7774bd826289874576](#).



THANK YOU FOR CHOOSING

// HALBORN

