



Preliminary Comments

Zebec Program v2

Nov 19th, 2021



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Disclaimer

About

Summary

This report has been prepared for Zebec Protocol to discover issues and vulnerabilities in the source code of the Zebec Program v2 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 purely informational findings. 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 | Zebec Program v2 |
| Platform | Solana |
| Language | Rust |
| Codebase | https://github.com/Zebec-protocol/zebec-program-v2/ |
| Commit | f64184d2160708244a5f3a151b8b09e5dd5c3e74 |

Audit Summary

| | |
|-------------------|--------------------------------|
| Delivery Date | Nov 22, 2021 |
| Audit Methodology | Static Analysis, Manual Review |
| Key Components | |

Vulnerability Summary

| Vulnerability Level | Total | ⚠ Pending | ⊗ Declined | ℹ Acknowledged | 🔄 Partially Resolved | ✅ Resolved |
|---------------------|-------|-----------|------------|----------------|----------------------|------------|
| 🔴 Critical | 0 | 0 | 0 | 0 | 0 | 0 |
| 🟠 Major | 0 | 0 | 0 | 0 | 0 | 0 |
| 🟡 Medium | 0 | 0 | 0 | 0 | 0 | 0 |
| 🟠 Minor | 0 | 0 | 0 | 0 | 0 | 0 |
| 🟢 Informational | 15 | 15 | 0 | 0 | 0 | 0 |
| 🟢 Discussion | 0 | 0 | 0 | 0 | 0 | 0 |

Audit Scope

| ID | Repo | Commit | File | SHA256 Checksum |
|-----|---------------------------------|---------|--------------------|---|
| ERR | Zebec-protocol/zebec-program-v2 | f64184d | src/error.rs | d7d8feddcebd62457c16976ac38d4b497d42ef16e79630049dfd265c5d4b6ff8 |
| INS | Zebec-protocol/zebec-program-v2 | f64184d | src/instruction.rs | 4fa1de848c9788370a485bf8594cbc9f3a829e3adde645414d6ae5d4495891bd |
| LIB | Zebec-protocol/zebec-program-v2 | f64184d | src/lib.rs | ea4f4fed482154130ccaa3db687ad1749aae3f3b6c309d1986201176eb71b622 |
| PRO | Zebec-protocol/zebec-program-v2 | f64184d | src/processor.rs | 1be37ef5f7c853f85478656e710440d8be96d55d132bf2a84a83e4db41798ec75 |
| STA | Zebec-protocol/zebec-program-v2 | f64184d | src/state.rs | 9540dea542ef0c66368af2fdd245f8bfa56ad6d9fbc0ee9dd551986f20fe71d |
| UTI | Zebec-protocol/zebec-program-v2 | f64184d | src/utls.rs | 7e712ad755562af348280ea286a6fd27db2168ca8dab3a23cac7218b0d071ada |

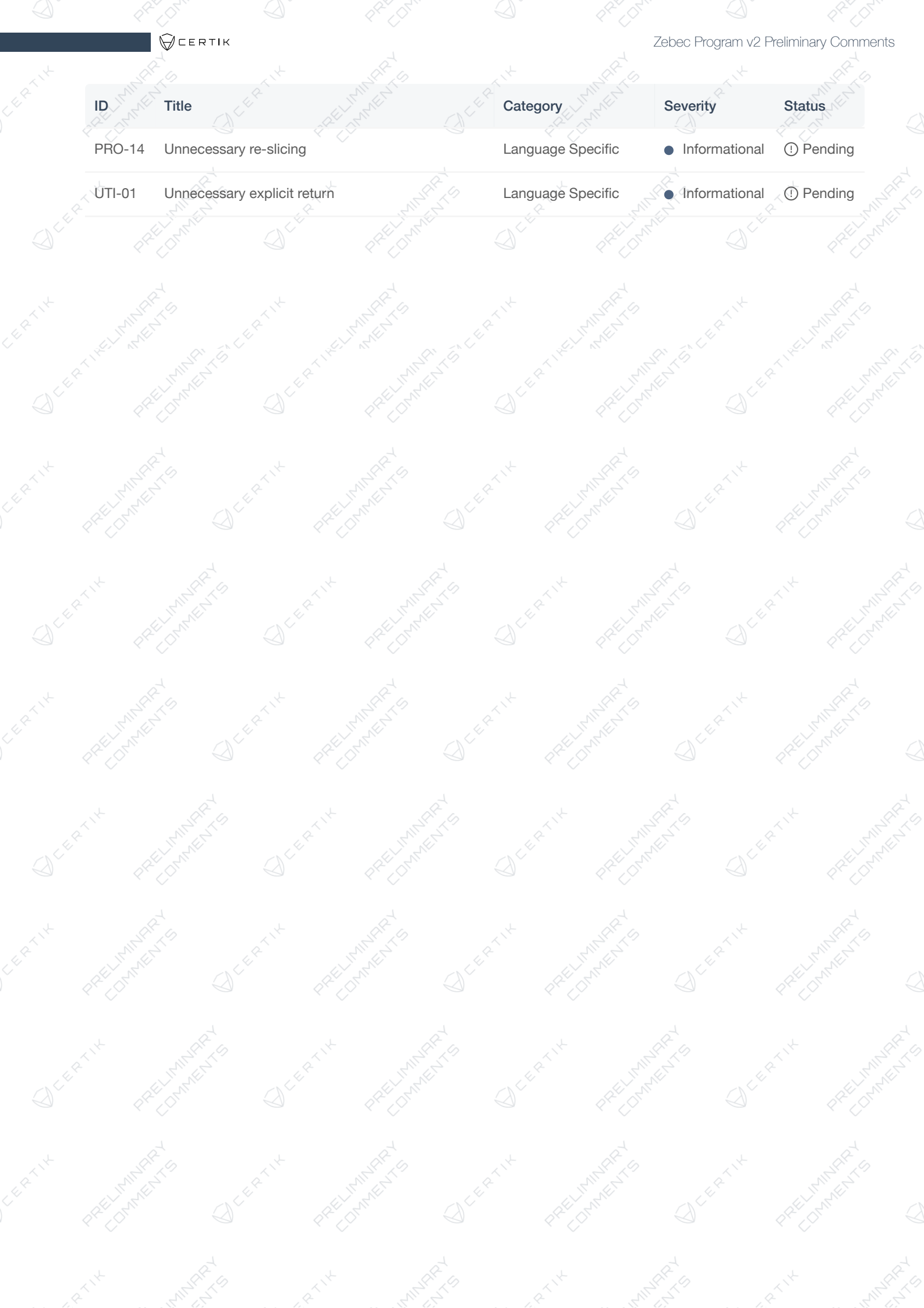
Findings

15

Total Issues

| | |
|---|--------------|
| ■ Critical | 0 (0.00%) |
| ■ Major | 0 (0.00%) |
| ■ Medium | 0 (0.00%) |
| ■ Minor | 0 (0.00%) |
| ■ Informational | 15 (100.00%) |
| ■ Discussion | 0 (0.00%) |

| ID | Title | Category | Severity | Status |
|--------|---|-------------------------|---|-----------|
| PRO-01 | Code reuse can be streamlined through member function | Coding Style | ● Informational | ⚠ Pending |
| PRO-02 | Decrementation can be simplified | Mathematical Operations | ● Informational | ⚠ Pending |
| PRO-03 | Decrementation can be simplified | Mathematical Operations | ● Informational | ⚠ Pending |
| PRO-04 | Unnecessary re-slicing | Language Specific | ● Informational | ⚠ Pending |
| PRO-05 | Unnecessary re-slicing | Language Specific | ● Informational | ⚠ Pending |
| PRO-06 | Decrementation can be simplified | Mathematical Operations | ● Informational | ⚠ Pending |
| PRO-07 | Decrementation can be simplified | Mathematical Operations | ● Informational | ⚠ Pending |
| PRO-08 | Unnecessary re-slicing | Language Specific | ● Informational | ⚠ Pending |
| PRO-09 | Unnecessary error type conversion | Language Specific | ● Informational | ⚠ Pending |
| PRO-10 | Incrementation can be simplified | Mathematical Operations | ● Informational | ⚠ Pending |
| PRO-11 | Unnecessary error type conversion | Language Specific | ● Informational | ⚠ Pending |
| PRO-12 | Unnecessary re-slicing | Language Specific | ● Informational | ⚠ Pending |
| PRO-13 | Unnecessary double reference | Language Specific | ● Informational | ⚠ Pending |



| ID | Title | Category | Severity | Status |
|--------|-----------------------------|-------------------|--------------------------------------|--------------------------------|
| PRO-14 | Unnecessary re-slicing | Language Specific | <div><div></div> Informational</div> | <div><div></div> Pending</div> |
| UTI-01 | Unnecessary explicit return | Language Specific | <div><div></div> Informational</div> | <div><div></div> Pending</div> |

PRO-01 | Code reuse can be streamlined through member function

| Category | Severity | Location | Status |
|--------------|-----------------|---|-----------|
| Coding Style | ● Informational | src/processor.rs: 589 , 497 , 392 , 248 , 199 , 131 | ⓘ Pending |

Description

The linked lines in the `processor` module calculate the allowed amount based on the current timestamp within the span of the escrow using the same code:

```
let mut allowed_amt = (  
    ((now - escrow.start_time) as f64) /  
    ((escrow.end_time - escrow.start_time) as f64) *  
    escrow.amount as f64  
) as u64;
```

Recommendation

Consider implementing the calculation as a member function under the `Escrow` struct in the `state` module in order to reduce any room for error and alleviate any potential future refactoring:

```
impl Escrow {  
    pub fn allowed_amt(&self, timestamp: u64) -> u64 {  
        (  
            ((now - self.start_time) as f64) /  
            ((self.end_time - self.start_time) as f64) *  
            self.amount as f64  
        ) as u64  
    }  
}
```


PRO-02 | Decrementation can be simplified

| Category | Severity | Location | Status |
|-------------------------|-----------------|---------------------------------------|-----------|
| Mathematical Operations | ● Informational | src/processor.rs: 167 | 🕒 Pending |

Description

The `process_sol_withdraw_stream` function in the `processor` module performs a decrementation on the `escrow.withdraw_limit` by way of assignment and primitive subtraction on L167, which is unnecessary:

```
escrow.withdraw_limit = escrow.withdraw_limit - amount
```

Recommendation

Consider replacing the assignment and primitive subtraction with a subtracting assignment on L167:

```
escrow.withdraw_limit -= amount;
```

PRO-03 | Decrementation can be simplified

| Category | Severity | Location | Status |
|-------------------------|-----------------|---------------------------------------|-----------|
| Mathematical Operations | ● Informational | src/processor.rs: 169 | 🕒 Pending |

Description

The `process_sol_withdraw_stream` function in the `processor` module performs a decrementation on the `escrow.amount` by way of assignment and primitive subtraction on L169, which is unnecessary:

```
escrow.amount -= escrow.amount-amount;
```

Recommendation

Consider replacing the assignment and primitive subtraction with a subtracting assignment on L169:

```
escrow.amount -= amount;
```

PRO-04 | Unnecessary re-slicing

| Category | Severity | Location | Status |
|-------------------|-----------------|---------------------------------------|-----------|
| Language Specific | ● Informational | src/processor.rs: 345 | ⓘ Pending |

Description

The `process_token_stream` function in the `processor` module re-slices the entire `pda_signer_seeds` slice on L345, which is unnecessary:

```
&pda_signer_seeds[..]
```

Recommendation

Since the `pda_signer_seeds` value is already a slice, consider passing it by value on L345 instead of re-slicing it for the entire range:

```
pda_signer_seeds
```

PRO-05 | Unnecessary re-slicing

| Category | Severity | Location | Status |
|-------------------|-----------------|---------------------------------------|-----------|
| Language Specific | ● Informational | src/processor.rs: 455 | ⓘ Pending |

Description

The `process_token_withdraw_stream` function in the `processor` module re-slices the entire `pda_signer_seeds` slice on L455, which is unnecessary:

```
&pda_signer_seeds[..]
```

Recommendation

Since the `pda_signer_seeds` value is already a slice, consider passing it by value on L455 instead of re-slicing it for the entire range:

```
pda_signer_seeds
```

PRO-06 | Decrementation can be simplified

| Category | Severity | Location | Status |
|-------------------------|-----------------|---------------------------------------|-----------|
| Mathematical Operations | ● Informational | src/processor.rs: 459 | ⌚ Pending |

Description

The `process_token_withdraw_stream` function in the `processor` module performs a decrementation on the `escrow.withdraw_limit` by way of assignment and primitive subtraction on L459, which is unnecessary:

```
escrow.withdraw_limit -= escrow.withdraw_limit-amount
```

Recommendation

Consider replacing the assignment and primitive subtraction with a subtracting assignment on L459:

```
escrow.withdraw_limit -= amount;
```

PRO-07 | Decrementation can be simplified

| Category | Severity | Location | Status |
|-------------------------|-----------------|---------------------------------------|-----------|
| Mathematical Operations | ● Informational | src/processor.rs: 461 | 🕒 Pending |

Description

The `process_token_withdraw_stream` function in the `processor` module performs a decrementation on the `escrow.amount` by way of assignment and primitive subtraction on L461, which is unnecessary:

```
escrow.amount -= escrow.amount-amount;
```

Recommendation

Consider replacing the assignment and primitive subtraction with a subtracting assignment on L461:

```
escrow.amount -= amount;
```

PRO-08 | Unnecessary re-slicing

| Category | Severity | Location | Status |
|-------------------|-----------------|---------------------------------------|-----------|
| Language Specific | ● Informational | src/processor.rs: 563 | ⓘ Pending |

Description

The `process_token_cancel_stream` function in the `processor` module re-slices the entire `pda_signer_seeds` slice on L563, which is unnecessary:

```
&pda_signer_seeds[..]
```

Recommendation

Since the `pda_signer_seeds` value is already a slice, consider passing it by value on L563 instead of re-slicing it for the entire range:

```
pda_signer_seeds
```

PRO-09 | Unnecessary error type conversion

| Category | Severity | Location | Status |
|-------------------|-----------------|---------------------------------------|-----------|
| Language Specific | ● Informational | src/processor.rs: 731 | ⓘ Pending |

Description

The `process_fund_sol` function in the `processor` module converts the error result `ProgramError::UninitializedAccount` on L731, which is unnecessary due to the error type for the `process_fund_sol` function already being `ProgramError`:

```
return Err(ProgramError::UninitializedAccount.into());
```

Recommendation

Consider removing the `.into()` conversion on L731:

```
return Err(ProgramError::UninitializedAccount);
```


PRO-10 | Incrementation can be simplified

| Category | Severity | Location | Status |
|-------------------------|-----------------|---------------------------------------|-----------|
| Mathematical Operations | ● Informational | src/processor.rs: 741 | 🕒 Pending |

Description

The `process_fund_sol` function in the `processor` module performs a incrementation on the `escrow.amount` by way of assignment and primitive addition on L741, which is unnecessary:

```
escrow.amount = escrow.amount+amount;
```

Recommendation

Consider replacing the assignment and primitive addition with an incrementing assignment on L741:

```
escrow.amount += amount;
```

PRO-11 | Unnecessary error type conversion

| Category | Severity | Location | Status |
|-------------------|-----------------|---------------------------------------|-----------|
| Language Specific | ● Informational | src/processor.rs: 752 | ⓘ Pending |

Description

The `process_fund_token` function in the `processor` module converts the error result `ProgramError::UninitializedAccount` on L752, which is unnecessary due to the error type for the `process_fund_token` function already being `ProgramError`:

```
return Err(ProgramError::UninitializedAccount.into());
```

Recommendation

Consider removing the `.into()` conversion on L752:

```
return Err(ProgramError::UninitializedAccount);
```

PRO-12 | Unnecessary re-slicing

| Category | Severity | Location | Status |
|-------------------|-----------------|---------------------------------------|-----------|
| Language Specific | ● Informational | src/processor.rs: 796 | ⓘ Pending |

Description

The `process_withdraw_sol` function in the `processor` module re-slices the entire `pda_signer_seeds` slice on L796, which is unnecessary:

```
&pda_signer_seeds[..]
```

Recommendation

Since the `pda_signer_seeds` value is already a slice, consider passing it by value on L796 instead of re-slicing it for the entire range:

```
pda_signer_seeds
```

PRO-13 | Unnecessary double reference

| Category | Severity | Location | Status |
|-------------------|-----------------|---------------------------------------|-----------|
| Language Specific | ● Informational | src/processor.rs: 820 | ⓘ Pending |

Description

The `process_withdraw_token` function in the `processor` module passes `source_account_info.key` by reference on L820 to the `spl_associated_token_account::get_associated_token_address` function, which is unnecessary because the `source_account_info.key` is already a reference:

```
let source_associated_token = spl_associated_token_account::get_associated_token_address(  
    &source_account_info.key,  
    token_mint_info.key  
);
```

Recommendation

Since `source_account_info.key` is already a reference, consider removing the reference operator on L820:

```
let source_associated_token = spl_associated_token_account::get_associated_token_address(  
    source_account_info.key,  
    token_mint_info.key  
);
```

PRO-14 | Unnecessary re-slicing

| Category | Severity | Location | Status |
|-------------------|-----------------|---------------------------------------|-----------|
| Language Specific | ● Informational | src/processor.rs: 843 | ⓘ Pending |

Description

The `process_withdraw_token` function in the `processor` module re-slices the entire `pda_signer_seeds` slice on L843, which is unnecessary:

```
&pda_signer_seeds[..]
```

Recommendation

Since the `pda_signer_seeds` value is already a slice, consider passing it by value on L843 instead of re-slicing it for the entire range:

```
pda_signer_seeds
```

UTI-01 | Unnecessary explicit return

| Category | Severity | Location | Status |
|-------------------|-----------------|-----------------|-----------|
| Language Specific | ● Informational | src/utls.rs: 24 | ⚠ Pending |

Description

The `assert_keys_equal` function in the `utils` module performs an explicit return on L24, which is unnecessary due to the function having no further statements to execute.

Recommendation

Consider removing the explicit return on L24:

```
pub fn assert_keys_equal(key1: Pubkey, key2: Pubkey) -> ProgramResult {  
    if key1 != key2 {  
        Err(TokenError::PublicKeyMismatch.into())  
    } else {  
        Ok()  
    }  
}
```

Appendix

Finding Categories

Mathematical Operations

Mathematical Operation findings relate to mishandling of math formulas, such as overflows, incorrect operations etc.

Language Specific

Language Specific findings are issues that would only arise within Solidity, i.e. incorrect usage of private or delete.

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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